



BUILDING A STRONGER L.A.

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Martin L. Adams, General Manager and Chief Engineer

September 13, 2022

The Honorable City Council  
Office of the City Clerk  
Room 395, City Hall  
Mail Stop 160

Attention: Councilmember Mitch O'Farrell  
Chairperson, Energy, Climate Change, Environmental Justice, and River  
Committee

Honorable Members:

Subject: Council File No. 21-0890 – Electric Vehicle Master Plan / Citywide  
Infrastructure / Equitable Placement / Residential, Commercial and Industrial  
Customer Incentives / Federal and State Funding

Enclosed is a response to the subject referenced motions that requests the Los Angeles Department of Water and Power (LADWP) report to the Energy, Climate Change, Environmental Justice, and River (ECCEJR) Committee on a EV Master Plan update.

If you have any questions or if further information is required, please call me at (213) 367-1338, or have your staff contact Mr. Matthew A. Hale, Director of Legislative and Intergovernmental Affairs, at (213) 367-0751.

Sincerely,

A handwritten signature in blue ink, appearing to read 'M. Adams', is written over a light blue horizontal line.

Martin L. Adams  
General Manager and Chief Engineer

MAH:fc

Enclosure

c/enc: Councilmember Paul Koretz, Member, ECCEJR Committee  
Councilmember Gilbert A. Cedillo, Member, ECCEJR Committee  
Councilmember Kevin DeLeon, Member, ECCEJR Committee  
Councilmember Paul Krekorian, Member, ECCEJR Committee  
Mr. Matthew A. Hale



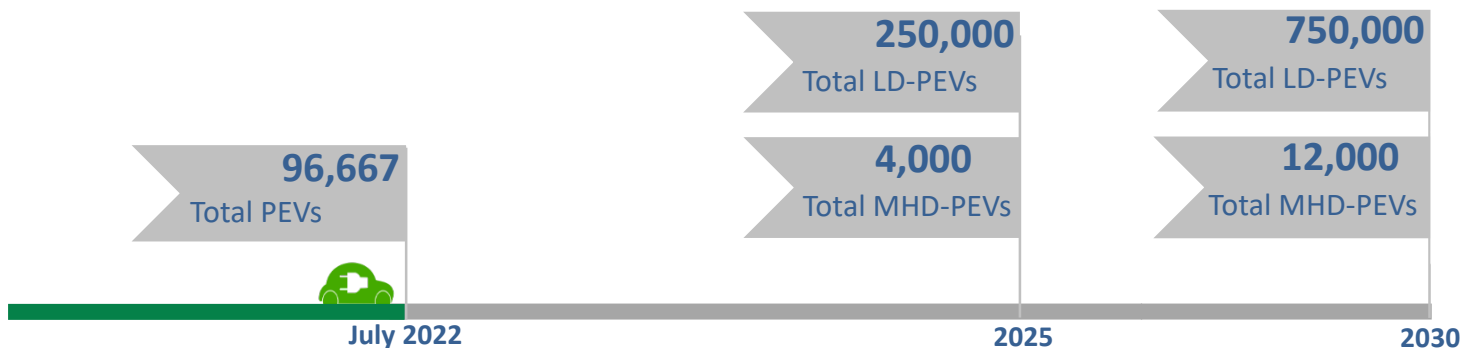
# **City of Los Angeles EV Master Plan Updates**

**September 15, 2022**

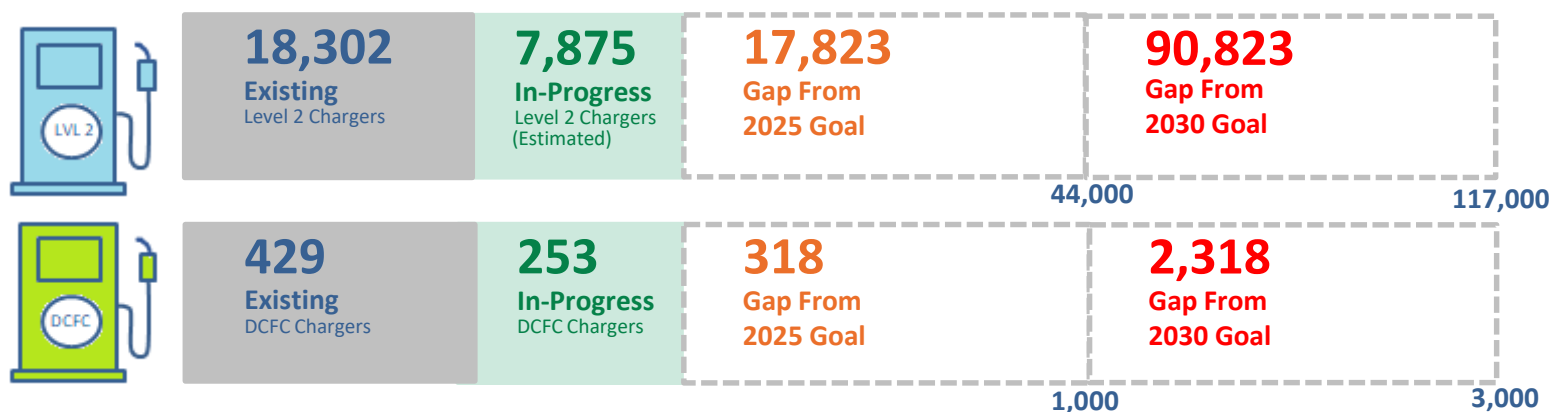
Los Angeles City Council  
Energy, Climate Change, Environmental Justice, and River Committee  
Item #9 - Council File #21-0890

# EV Adoption Goals & Infrastructure Needs

## Vehicles



## Infrastructure



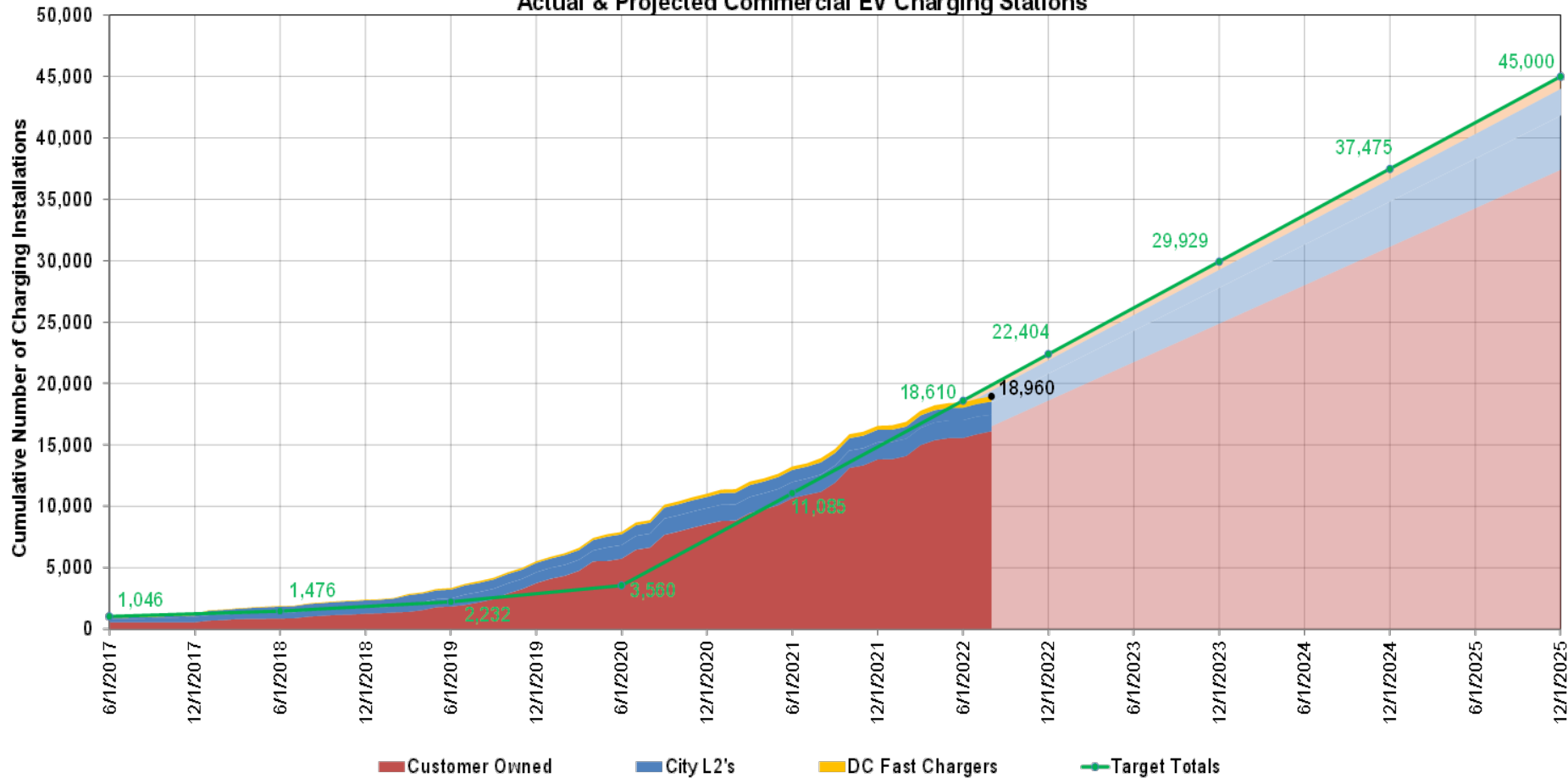
LD-PEV: Light Duty Plug-in Electric Vehicle

MHD-PEV: Medium and Heavy Duty Plug-in Electric Vehicle

DCFC: Direct Current Fast Charger

# 45,000 Charging Stations by 2025

Actual & Projected Commercial EV Charging Stations



# LADOT BlueLA Electric Car Sharing

## Blue LA Phase II

### Agreement Terms

Signed October 2021

- Additional 200 Vehicles
- Additional 300 Charging Stations at 60 locations
- Term Date: April 2025
- Funding: \$4,290,000
  - CARB
    - \$900K - Operational Cost for Expansion
    - \$500K - Marketing Advertising and Promotions
    - \$400K - Utilization Incentive Plan
  - LADWP
    - \$2.4M - EVSE Funding
    - \$90K - Customer fees



# LADOT BlueLA Electric Car Sharing

## Electric Car Sharing

BlueLA powered by Blink Mobility, a subsidiary of Blink Charging, is a community station-based, all-electric car sharing service in Los Angeles. The mission is to make electric vehicles available to anyone over 18 years of age with a valid driver's license.

### Membership Types



#### Community Membership

Available to income-qualified members to access the program's full EV Rental at a reduced \$1 per month and reduced usage fees.



#### Standard Membership

Only \$5 per month, the Standard membership unlocks access to full EV rental fleet with low usage fees.

### Program Details

200

L2 Charging Stations

40

Citywide Locations

61

Electric Vehicles





# Collaboration with City Agencies - LADOT

## Los Angeles Department of Transportation (LADOT) BlueLA MOU

Executed: January 2022, Term: 3 years

### DCFC Plaza

- (4) DCFC, up to \$75,000 per charging station- \$300,000

### Library Installations

- (21) Level 2 charging stations, up to \$5,000 per station- \$105,000

### LADOT Charging Infrastructure

- (300) Level 2 charging stations, up to \$8,000 per station- \$2,400,000
- (60) LADWP EV Service Design Feasibility studies, \$1,500 per feasibility study- \$90,000
- Total Funding Amount Not to Exceed \$2,895,000



## LADOT Bus Electrification MOU

Executed: June 2021, Term: 3 years

- Tier 1 DCFC: \$50,000
- Tier 2 DCFC: \$60,000
- AC1/ 2 MDHD: \$30,000
- Total Funding Amount Not to Exceed \$10,000,000

# Collaboration with City Agencies - LAGSD

Los Angeles General Services Division (GSD) MOU executed:  
August 2021, Term: 3 years

- Will support over 30 projects across City of L.A.
- GSD supported over 100 charging stations at City Hall (2018 MOU)

## **Fleet**

- Tier 1 DCFC: \$40,000
- Tier 2 DCFC: \$60,000
- Level 2: \$4,000

## **Public**

- Tier 1 DCFC: \$55,000
- Tier 2 DCFC: \$75,000
- Level 2: \$8,000

## **Employee**

- Level 2: \$6,000

Total Funding Amount Not to Exceed \$4,500,000

Resiliency MOU with GSD approved by LADWP Board in August

- Includes option for DWP to install separately-metered, GSD-owned EV chargers or make-ready infrastructure





# Collaboration with City Agencies - Upcoming

## Finalizing MOU with LA Sanitation & Environment

Execution Expected Fall 2022, Term: 3 years

- Funding for AC & DC Fast Charging Stations
- 56 Light-duty, 18 Medium-duty, and 16 Heavy-duty Vehicles
- Total Funding Amount Not to Exceed \$3,000,000



## Recreation and Parks Resiliency MOU

Authorized: March 2020, Term: 30 years

- Green Meadows Grid Resiliency Project
  - 2-Level 2 and 2-DC Fast Chargers by LADWP
- Potential for Additional Projects by executing LOAs

## LA Zoo Resiliency MOU

Authorized: August 2022, Term: 30 years

- Options for EV Charger Installations or Make-Ready Infrastructure Installations by LADWP
- Potential for up to 100 Level 2 and 25 DC Fast Chargers

# Coordination with LA Metro

Metro's current electrification focus is on Bus Rapid Transit (BRT)

## G (Orange) Line Electrification

LADWP has rebated \$500,000 for 4 zero-emission bus chargers

\$750,000 has been reserved for an additional 6 chargers under construction

## Harbor Gateway

5 heavy-duty 450kW chargers currently under development



North Hollywood On-Route  
Inverted Pantograph Charger

# Charge Up L.A.! Commercial EV Charging Station Rebates

**\$18M**

Released  
June 20, 2022

Commercial L2  
EV Chargers

**\$12M**

Commercial DC  
Fast Chargers

**\$4M**

Commercial  
MDHD EV  
Chargers

**\$2M**

**An open enrollment was held June 20-28, 2022. LADWP received applications exceeding available funding.**

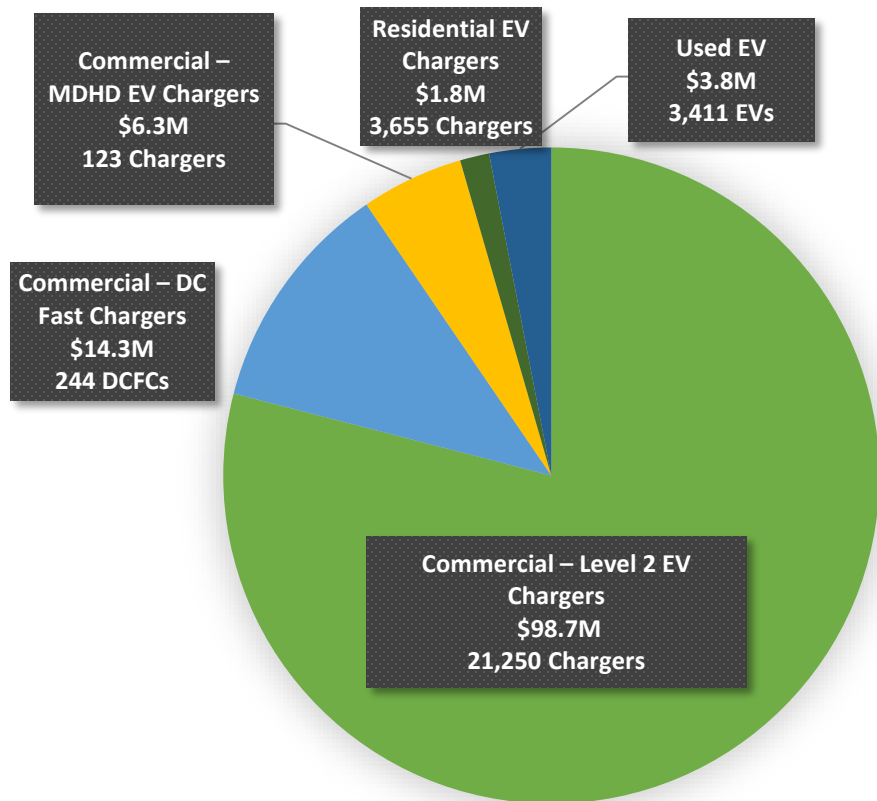
**A virtual, live lottery was conducted on August 18, 2022 to select Level 2 (L2) and DC Fast Charger (DCFC) applications:**

|      | Eligible Applications | Selected in Lottery |
|------|-----------------------|---------------------|
| L2   | 429 (\$30M)           | 164 (\$12M)         |
| DCFC | 58 (\$8.4M)           | 31 (\$4M)           |

**Applications not selected were waitlisted until future funding is released.**

**Enrollment for charging stations to fuel medium- and heavy-duty EVs remains open.**

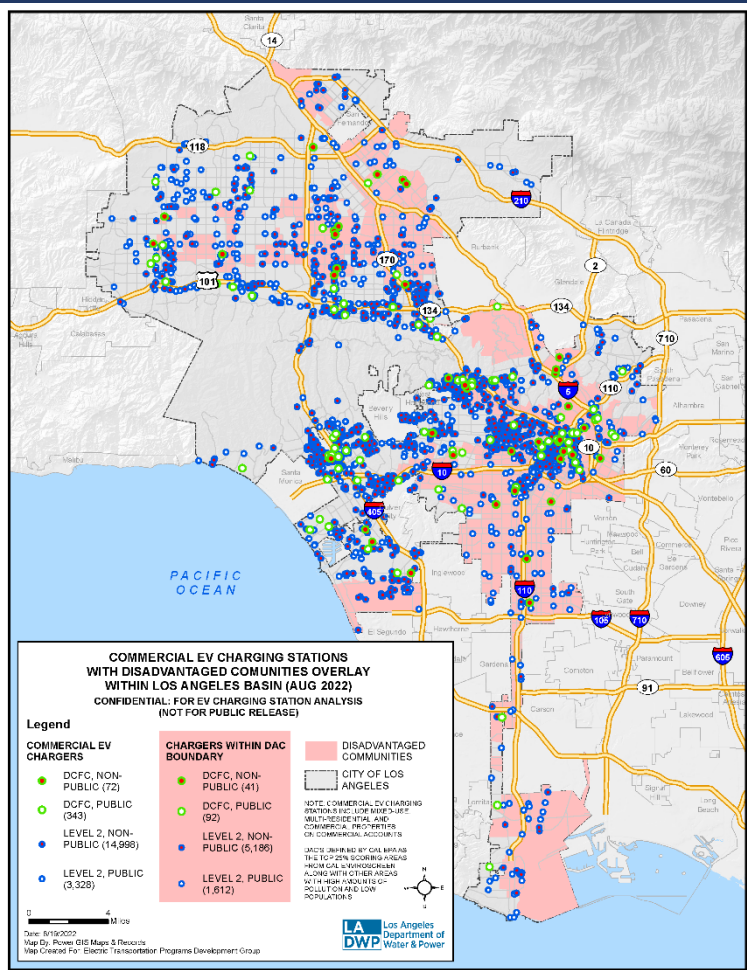
# Charge Up L.A.! Rebate Programs Applications



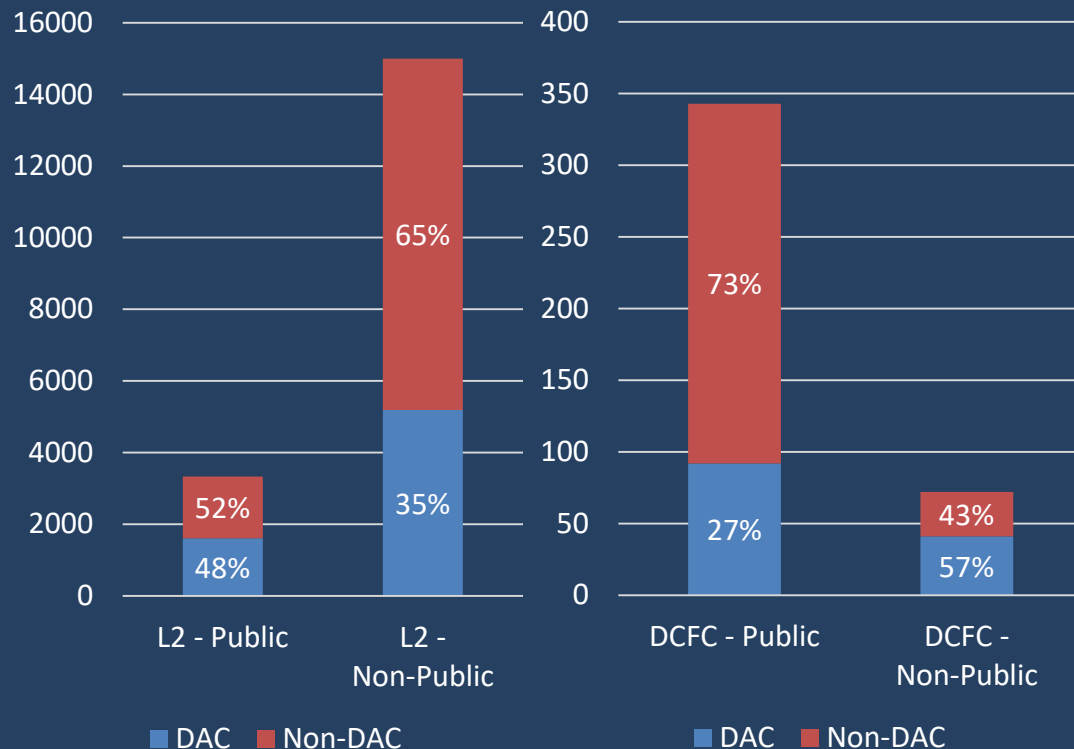
EV Rebates Funding Sum FY 19-20 to date (\$M)

Since 2019  
LADWP has offered  
\$125 Million  
In EV Rebates

# Charger Installations in Disadvantaged Communities (DACs)



## Charging Stations in Los Angeles

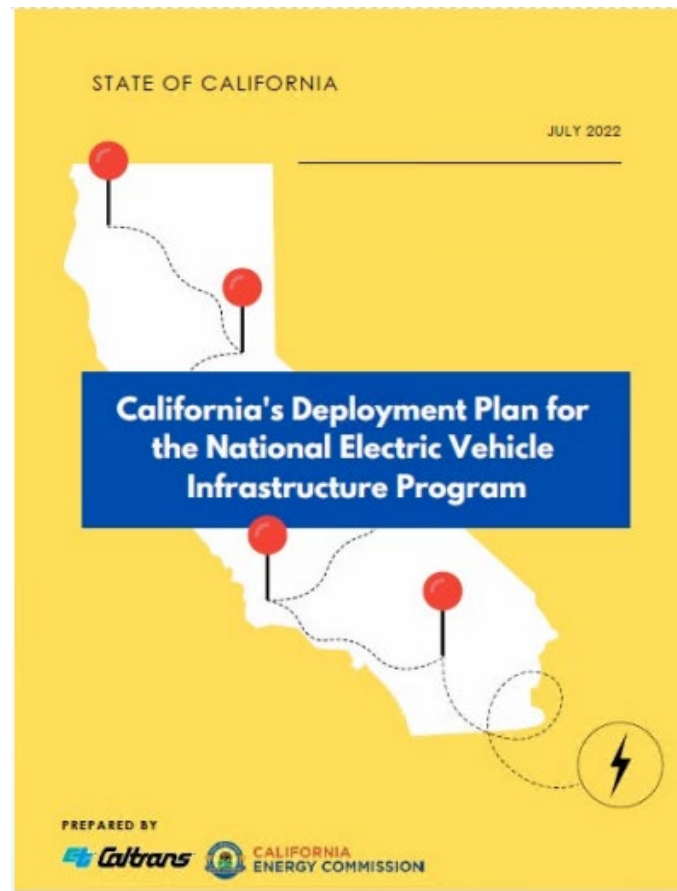




# Federal Funding

## Federal: Infrastructure Investment and Jobs Act (IIJA)

- National Electric Vehicle Infrastructure (NEVI) Formula Program allocated nearly \$5 billion over 5 years
  - Will help states create a network of EV charging stations along designated Alternative Fuel Corridors, particularly along the Interstate Highway System
  - California's distribution of the formula funding is estimated at \$384 million over 5 years
  - Private entities will acquire, install, own, develop, operate, and maintain chargers
- Local governments and community benefit organizations will have the opportunity to apply for \$2.5 billion in discretionary grant funding.
- Federal approval of California's Deployment Plan expected by September 30, 2022



# State Funding

## California: 2022 Zero-Emissions Vehicle (ZEV) Budget Package

- \$870 million over six years added to Clean Transportation Program
- Zero-emission school bus and infrastructure funds increased 4x
- Funds added specifically for at-home charging incentives
- Clean Cars 4 All & Other Equity Projects funding was doubled
- Requires phase out of conventional and plug-in hybrids by 2025
- Appropriations reflected in AB 158, AB 179, and AB 211

**2022-23** Governor's Budget



Thank You!

# Used EV and Residential Charging Station Rebate Programs



## Used EV Rebate

- \$1,500 for eligible used EVs purchased within 12 months of submitting an application
- **\$1,000 additional for qualifying participants who are actively enrolled in LADWP's Lifeline or EZ-SAVE Programs**



Level 2

## Residential Level 2 Charging Station Rebate

- \$1,000 for the purchase and installation of a qualifying Level 2 EV charger
- Up to \$250 for installing a dedicated EV Time-of-Use (TOU) meter
- **\$500 additional for qualifying participants who are actively enrolled in LADWP's Lifeline or EZ-SAVE Programs**

# Commercial EV Charging Station Rebate Programs

## Level 2 Chargers

- \$4,000 per charger
- \$5,000 per charger in disadvantaged communities
- **Increases access to charging at MUDs, workplaces, and public destinations**

## DC Fast Chargers

- \$75,000 per charger
- **Improves access to fast charging and alleviates range anxiety**

## Chargers for Medium- and Heavy-Duty Vehicles

- \$125,000 per charger
- **Helps electrify one of the largest source of pollution across the transportation sector**