



**City of Los Angeles  
EV Master Plan Updates  
Council File No. 21-0890**

**Energy, Climate Change, Environmental Justice, and River Committee  
October 21, 2021**

# Presentation Overview

- **Enhanced EV Adoption and Charging Infrastructure Goals**
- **Electric Transportation Program Funding**
- **Strategies and Initiatives to Achieve Revised Targets**
- **Rebate Programs and Equity Initiatives**
- **EV Master Plan Development**

# Enhanced EV Adoption and Charging Infrastructure Goals

# State Zero Emission Vehicle (ZEV) Goals

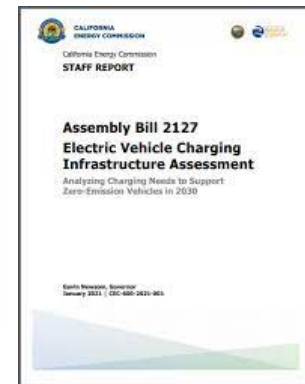
## Governor Newsom's Executive Order (N-79-20):

- Requires dealers to end sale of new fossil fueled light-duty passenger vehicles by 2035.
- Electrify Freight Trucks by 2035 and Medium & Heavy Duty Fleets by 2045.

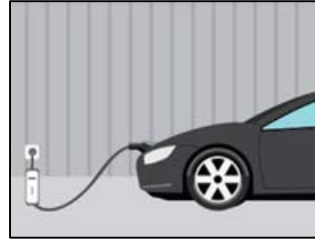


## Assembly Bill 2127 EV Charging Infrastructure Assessment :

- 1.2M chargers will be needed for the 7.5M EVs required by 2030
- LADWP's service territory is estimated to have 10 percent of the state's light-duty vehicle registrations.



# EV Charging Options & Speeds



**Level 1  
Charging**



**Level 2  
Charging**



**DC Fast  
Charging**



Location

Home

Home, Work,  
Apartments

Public, Plazas, & Retail



Speed

3 - 5 miles/hr

10 - 30 miles/hr

150 – 350+ miles/hr



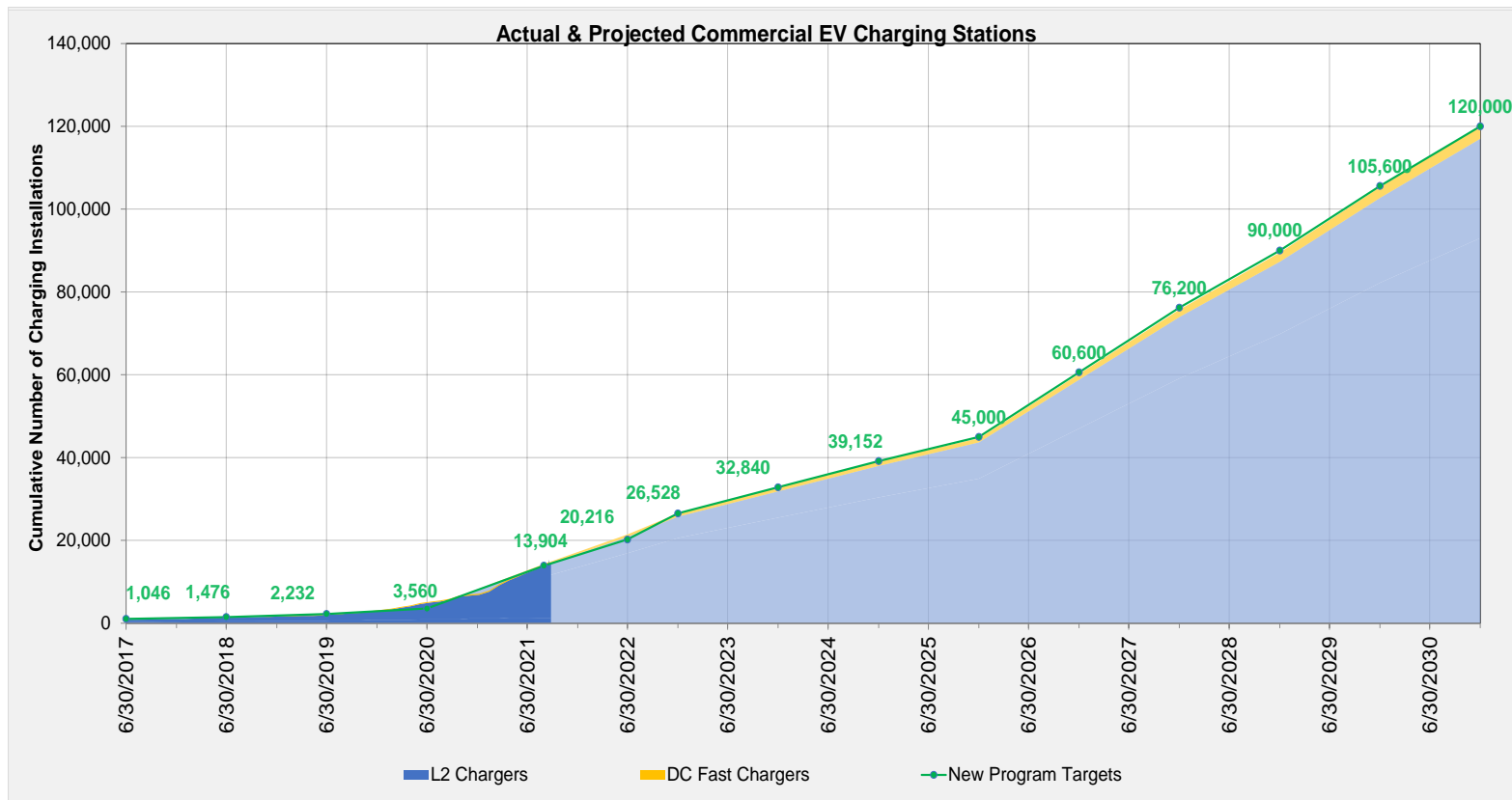
Time

20+ Hours

4 - 6 Hours

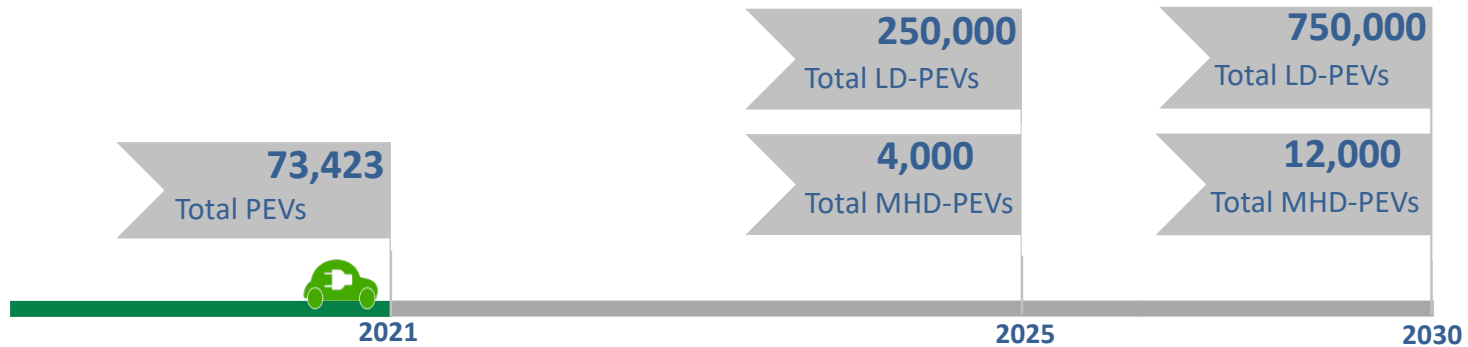
15 - 45 Minutes

# Progress towards Revised Goals

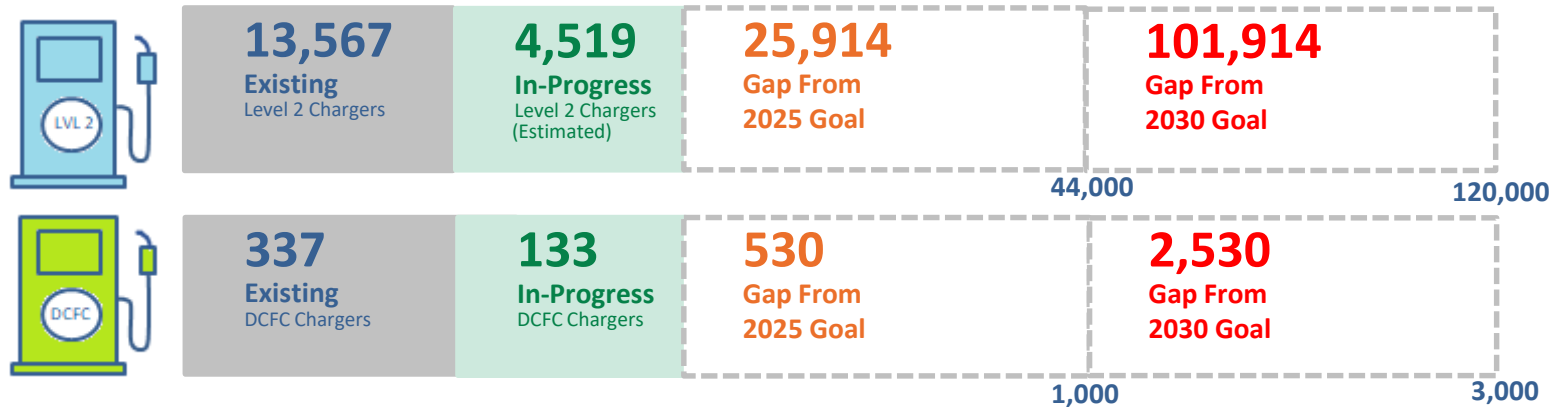


# Revised EV Adoption Goals & Infrastructure Needs

## Vehicles



## Infrastructure

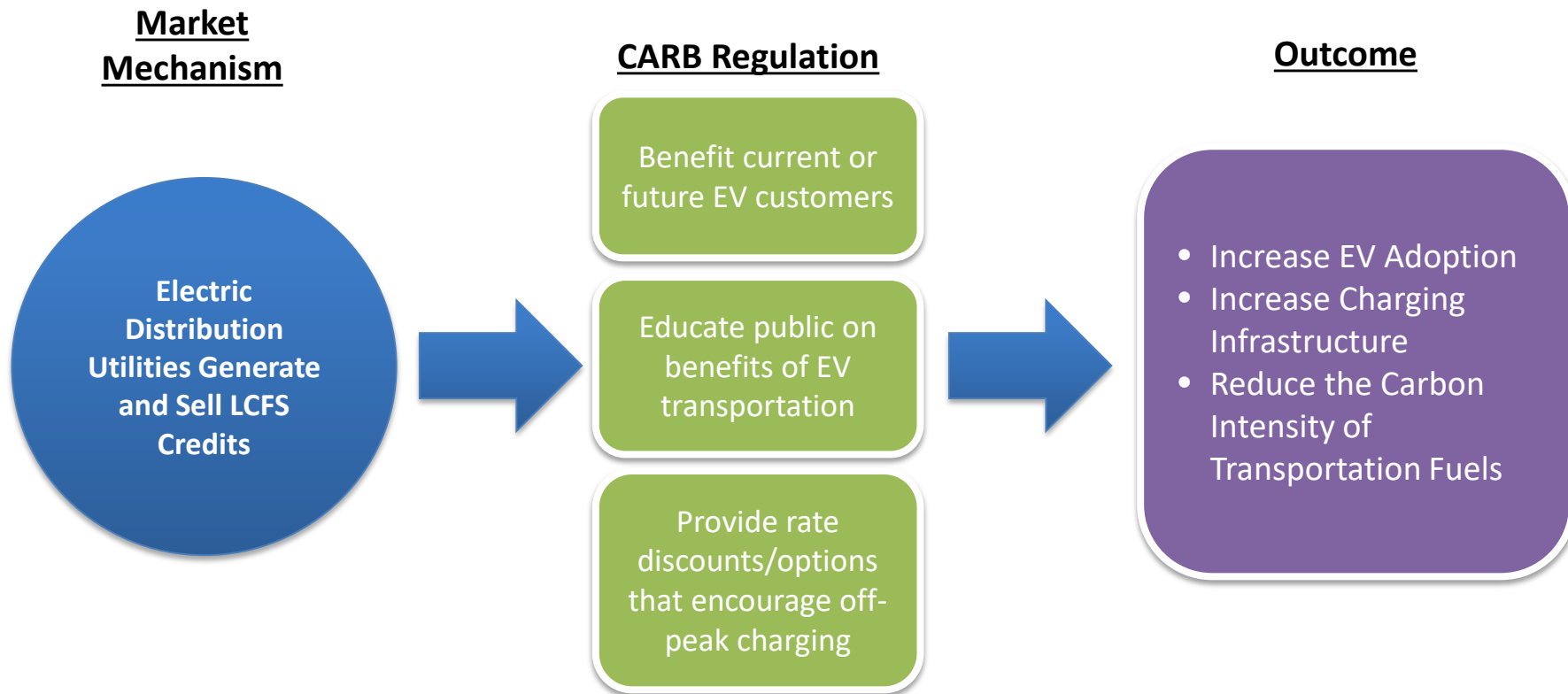


**Achieving the New Goals Bridges the Gap needed to Spur Targeted EV Adoption**

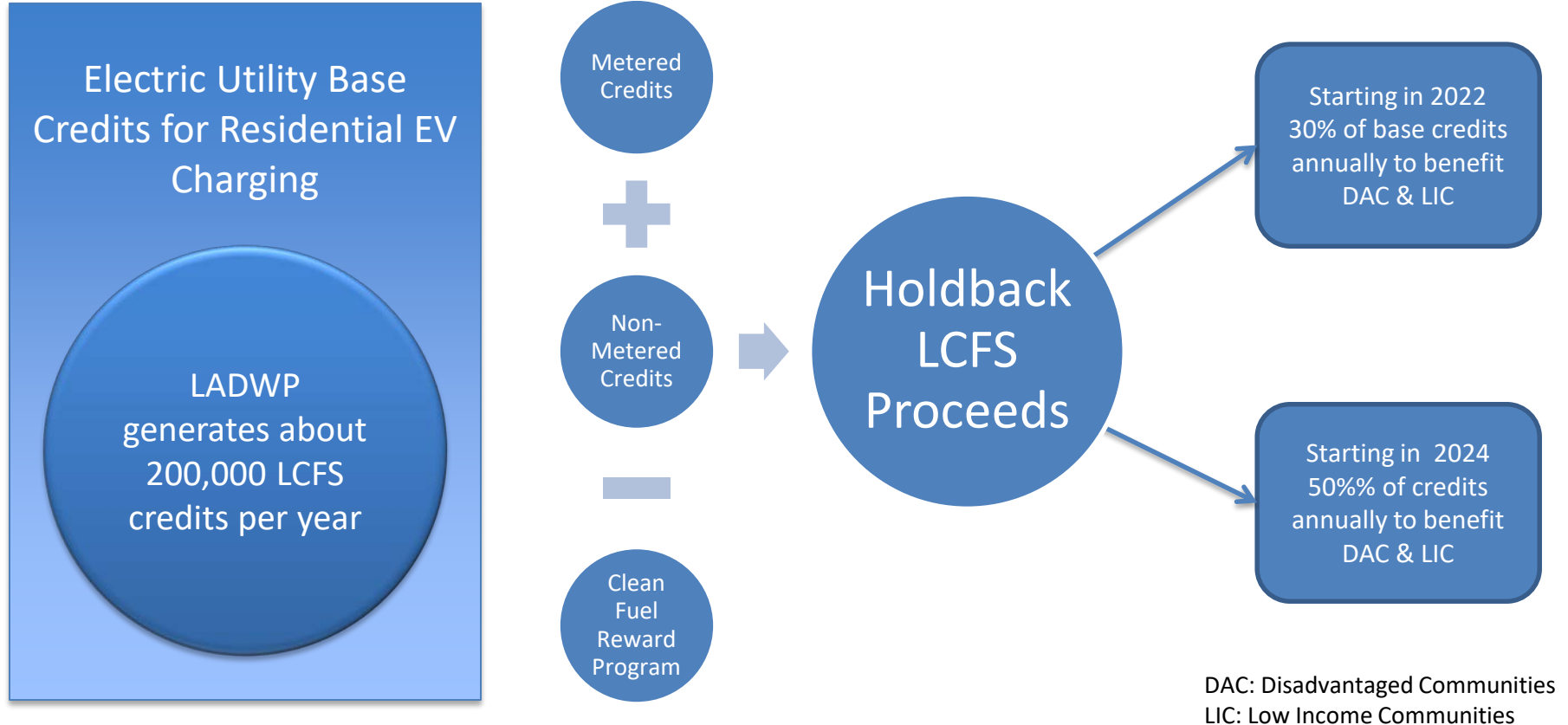
# Electric Transportation Program Funding



# Low Carbon Fuel Standard (LCFS) Credits

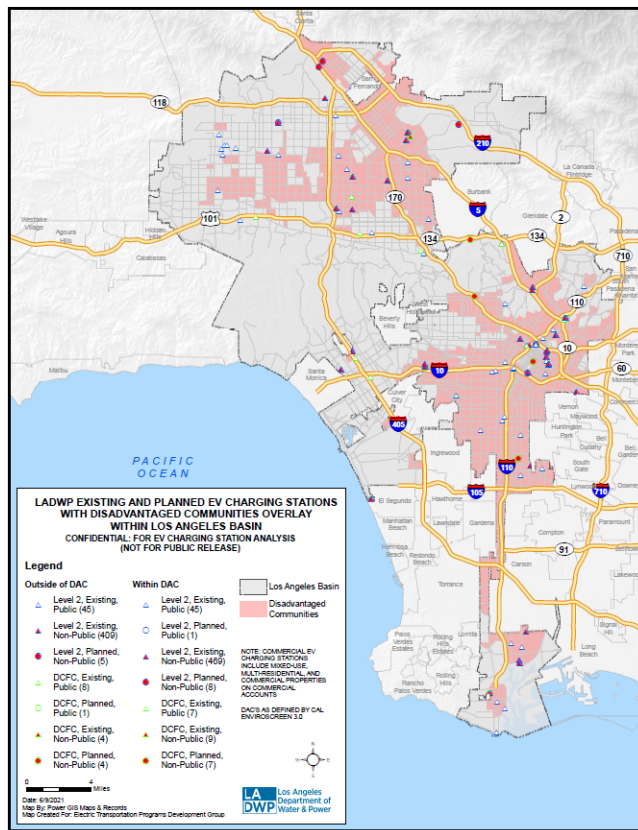


# How LCFS Credits are Generated

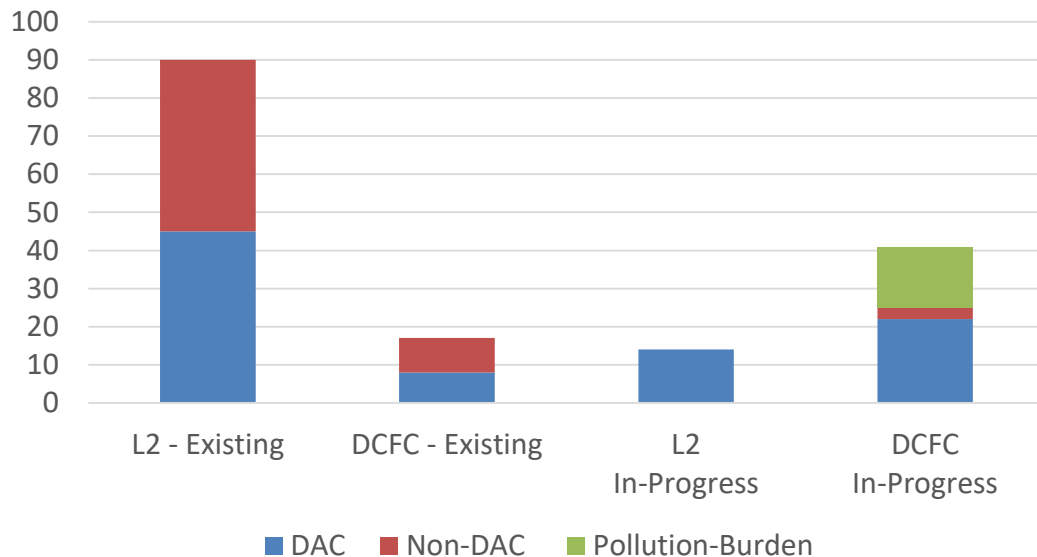


# Strategies and Initiatives to Achieve Revised Targets

# Direct Installs - LADWP Public Charger Installations



## LADWP Public Charging Stations



LADWP - to date, has installed 1,000 EV Chargers with 105 open to the public.

# Expand LA's Public Charging Network

Action	Facilitate Expansion of Public Charging Infrastructure in Los Angeles
Time frame	(1-9 years)

## Actions and Pathways to Implementation:

1. **Target 40% of public charging stations in disadvantaged communities**
2. Develop attractive cost-based electric rates
3. Design programs to encourage installations in disadvantaged communities
4. Direct installs and public charging plazas in disadvantaged communities
5. Collaborate on city-wide initiatives to improve charging installation & permitting processes

**Key Collaborators/Stakeholders:** Public Charging Station Operators, EVSE Installers, LADWP, Mayor's Office, Sister City Agencies, Permitting Agencies (BOE, LADBS, LADOT), City Council and committees.

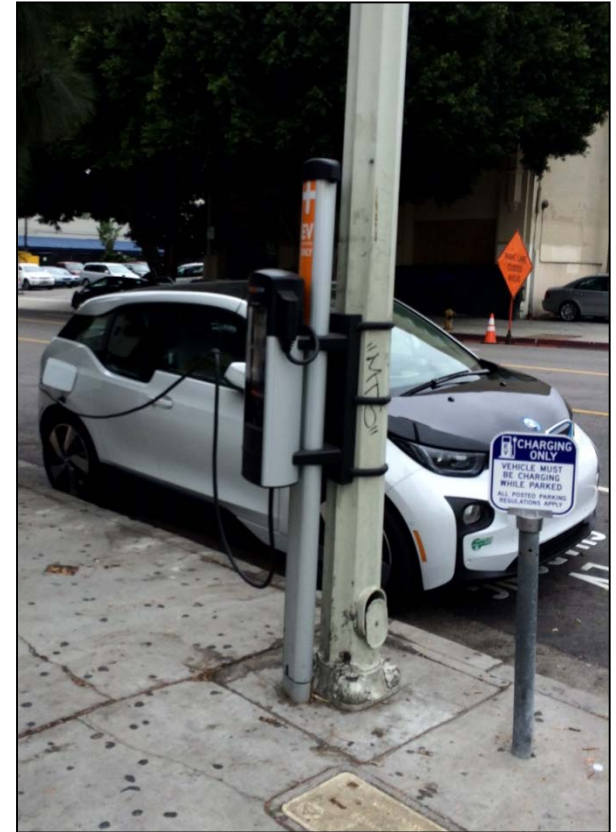
# Collaboration with City Agencies

## Memorandum of Understanding (MOU)s Executed:

- Los Angeles General Services Division (LAGSD) MOU supported over 100 charging stations at City Hall
- Newly Executed LAGSD MOU will support over 30 projects across City of LA
- Los Angeles Department of Transportation (LADOT) Bus Electrification MOU executed June 2021
- Los Angeles Harbor Department (LAHD) / Port of Los Angeles (POLA) Electrification

## MOUs In Development:

- Los Angeles Bureau of Street Lighting (LABSL) Public Curbside Charging
- LADOT Blue LA
- Los Angeles Sanitation (LASAN)



# Rebate Programs and Equity Initiatives

# Proposed Improvements

## Used EV and Residential Charger Rebate Programs



Level 2

Program	Current Rebate Amount	Proposed Changes (+ Equity Adder)	Total Rebate	Total Rebate Amount (with Low Income Adder)
Used EV Rebate	\$1,500	<b>+\$1,500 for Low Income</b>	\$1,500	<b>\$3,000</b>
Residential L2 Charging Station	\$500 for L2 charger	+\$500 for charger installation <b>+\$500 for Low Income</b>	\$1,000	<b>\$1,500</b>



# 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**

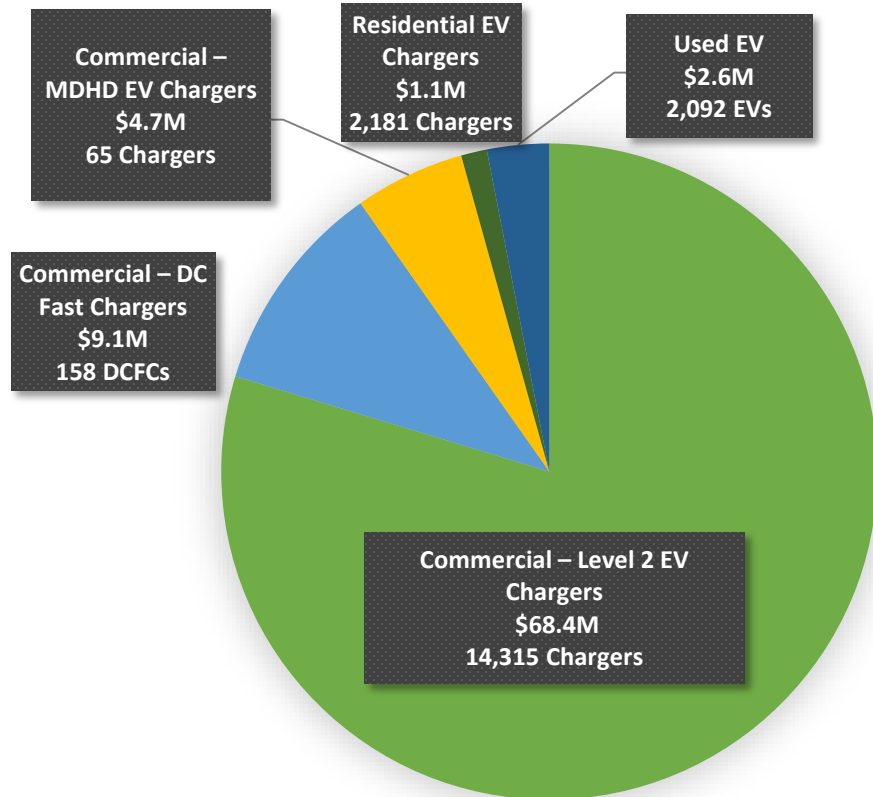
## DC Fast Chargers

- \$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**

# Charge Up LA Rebate Programs Applications



Since 2019  
LADWP has offered  
\$86 Million  
In EV Rebates

EV Rebates Funding Sum FY 19-20 through FY 20-21 (\$M)

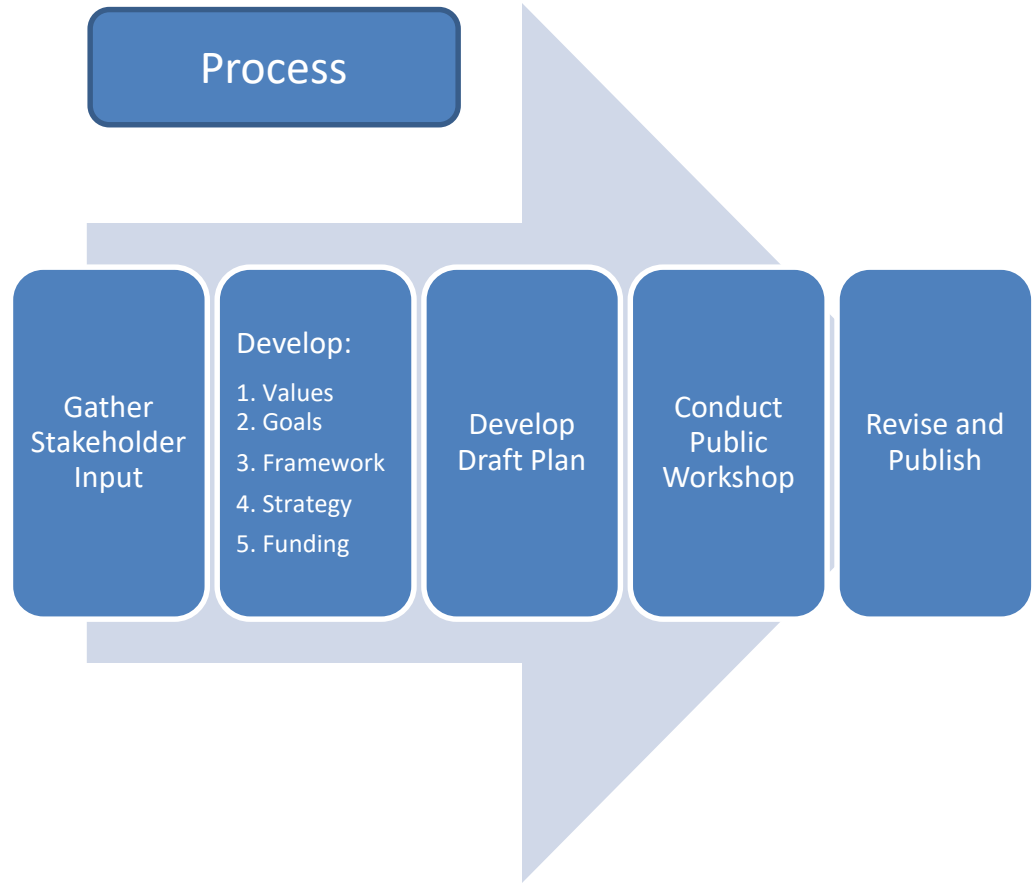
# EV Master Plan Development

# Citywide EV Master Plan Development

## Stakeholders



## Process



Thank You!