



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

**March 3, 2022**

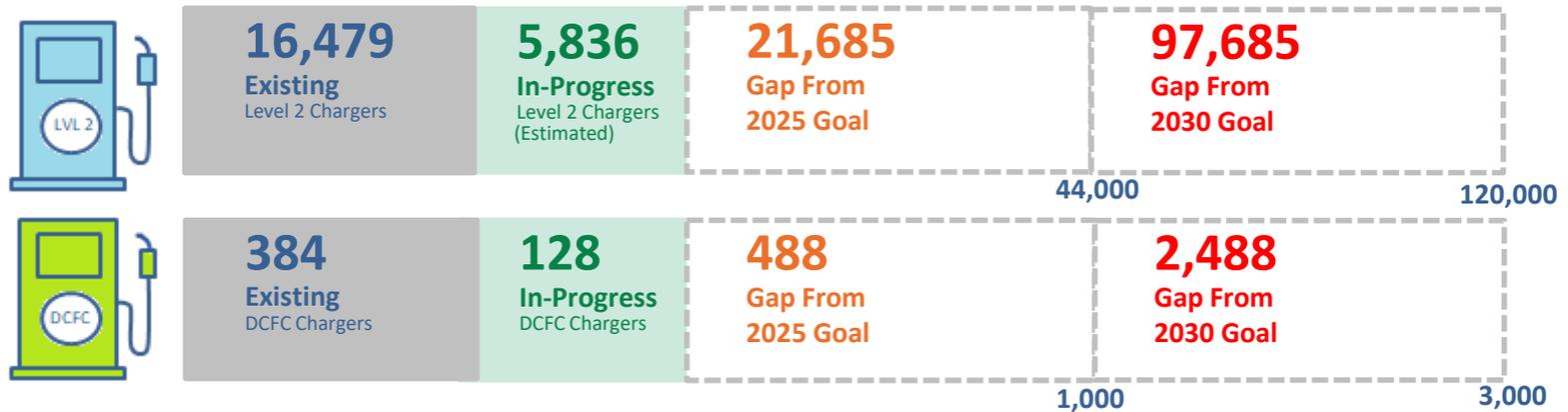
Los Angeles City Council  
Energy, Climate Change, Environmental Justice, and River Committee  
Item #3 - Council File #21-0890

# Updated EV Adoption Goals & Infrastructure Needs

## Vehicles

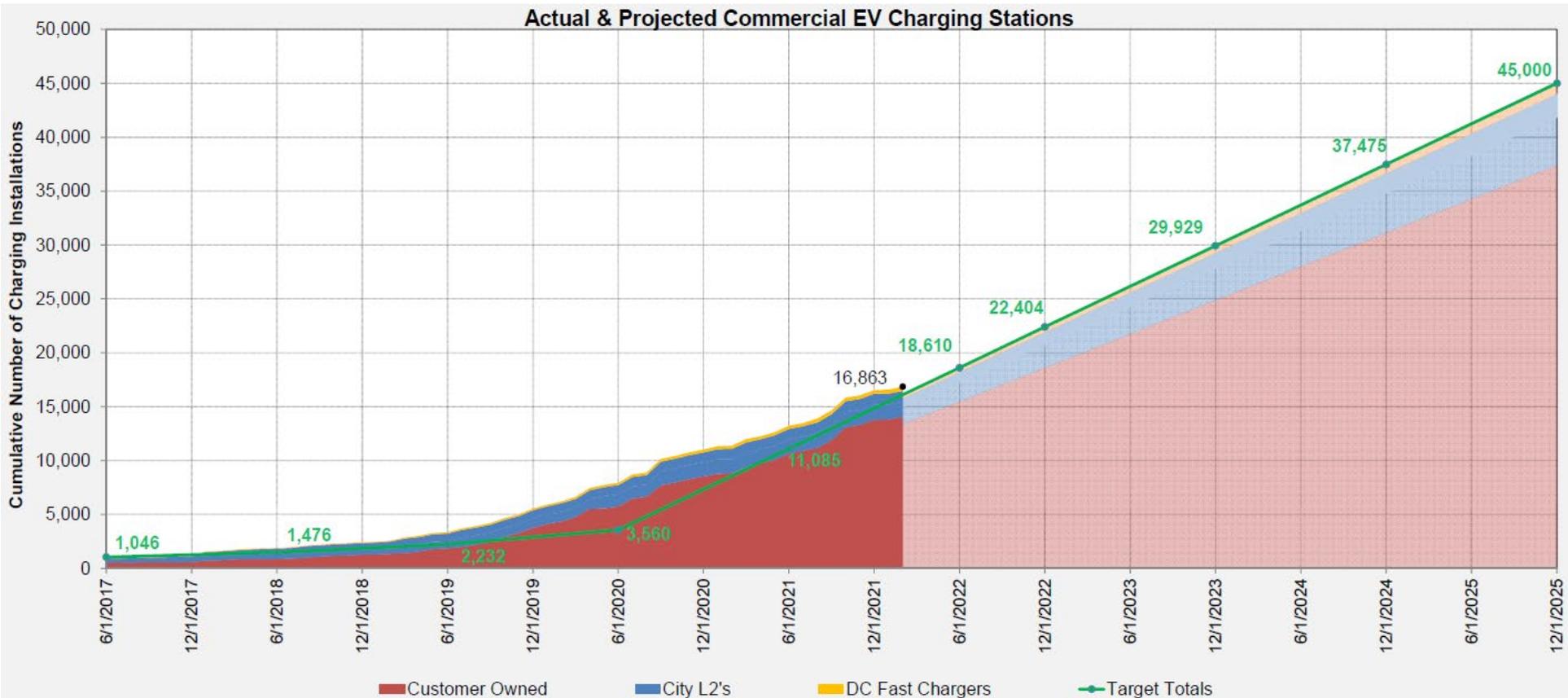


## Infrastructure



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

# 45,000 Charging Stations by 2025



# Collaboration with City Agencies

## Memoranda of Understanding (MOU)s Executed:

- Los Angeles Department of Transportation (LADOT) BlueLA MOU executed in January 2022
  - Will support over 300 charging stations at over 60 locations
- General Services Division (GSD) MOU executed in Aug 2021
  - Will support over 30 projects across City of L.A.
  - GSD supported over 100 charging stations at City Hall
- Los Angeles Department of Transportation (LADOT) Bus Electrification MOU executed in June 2021
- Resiliency MOU with Department of Recreation and Parks (RAP) executed in March 2020
- Los Angeles Harbor Department (LAHD) / Port of Los Angeles (POLA) Electrification MOU executed in 2018

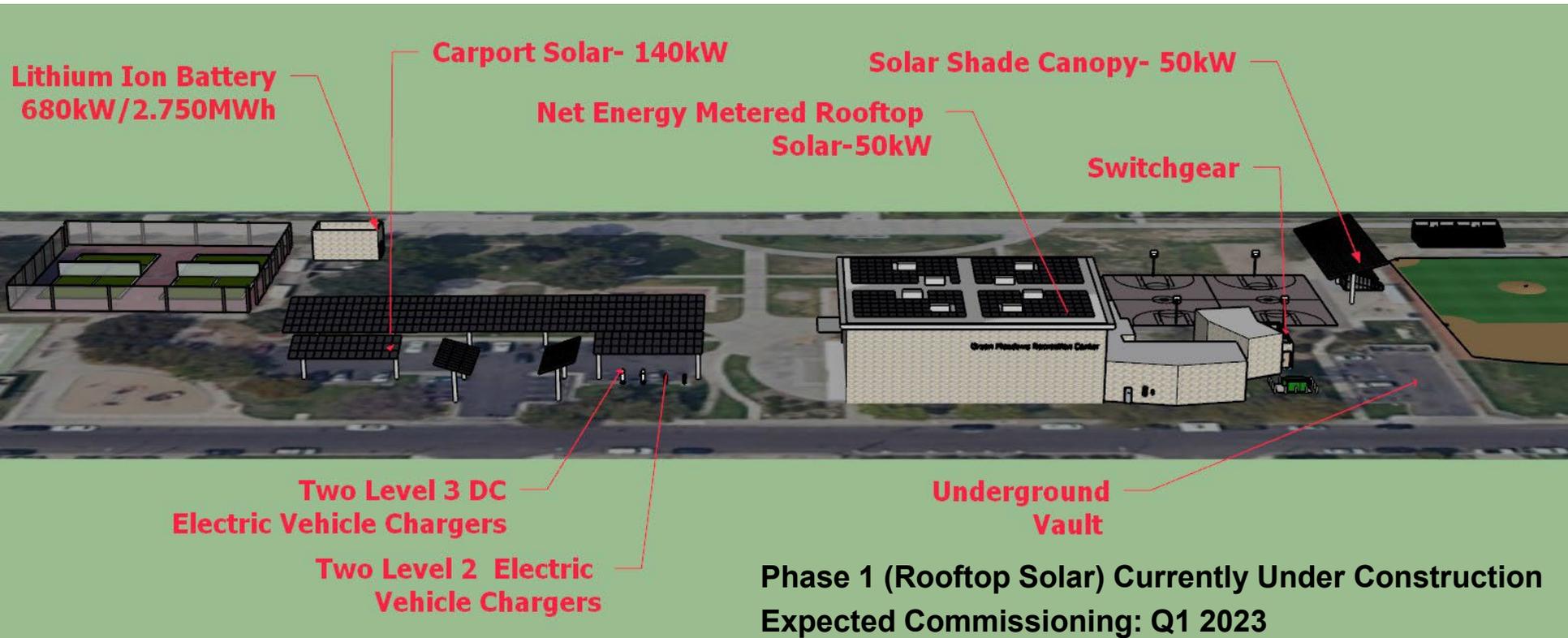
## MOUs Under Development:

- Los Angeles Bureau of Street Lighting (LABSL) Public Curbside Charging
- Los Angeles Sanitation (LASAN)
- Los Angeles Unified School District (LAUSD) including Battery Electric Bus Charging
- Resiliency Projects with LA Zoo and GSD



# Green Meadows Grid Resiliency Project

The first of many resilient centers to be developed in partnership with the Department of Recreation and Parks (RAP) as part of Mayor Garcetti's Resilient LA Plan



# Improvements to Used EV and Residential Charger Rebate Programs



Level 2

Program	Launch Date	Previous Rebate Amount	Equity Adder	Total Rebate	Total Rebate Amount (with Low Income Adder)
Used EV Rebate	February 17, 2022	\$1,500	<b>+\$1,000 for Low Income</b>	\$1,500	<b>\$2,500</b>
Residential L2 Charging Station	January 24, 2022	\$500 for L2 charger	<b>+\$500 for charger installation +\$500 for Low Income</b>	\$1,000	<b>\$1,500</b>

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

**\$17M**

Released  
Nov 19, 2021

Commercial L2  
EV Chargers

**\$12M**

Commercial DC  
Fast Chargers

**\$3M**

Commercial  
MDHD EV  
Chargers

**\$2M**

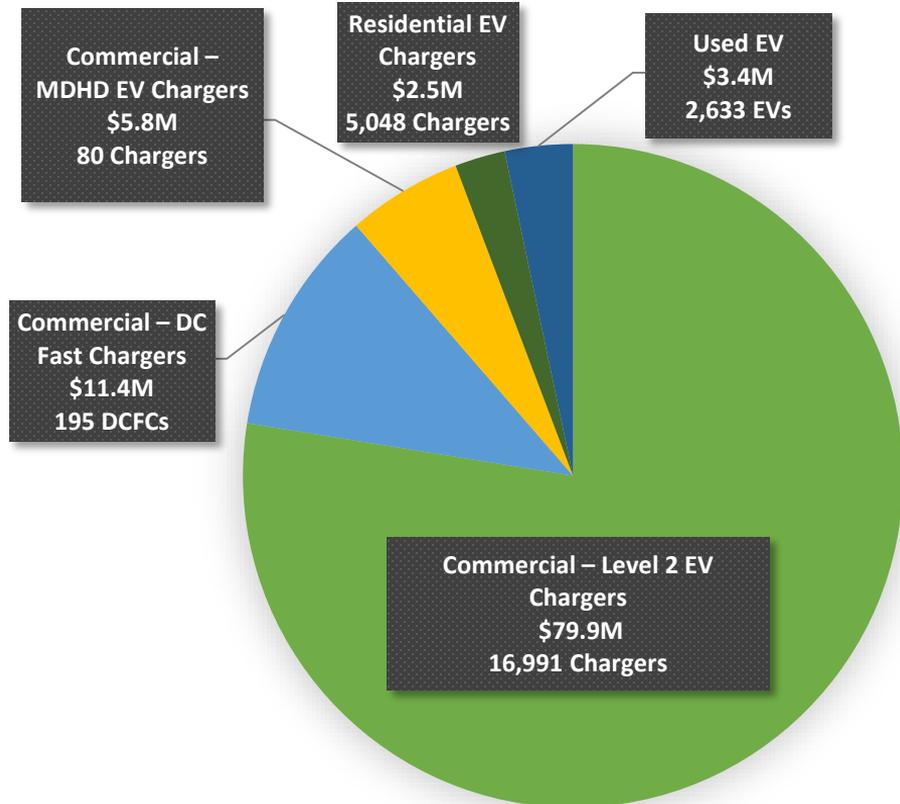
**Enrollment opened on November 19, 2021. LADWP received applications exceeding available funding.**

**A virtual, live lottery was conducted on January 25, 2022 to select Level 2 (L2) and DC Fast Charger (DCFC) applications:**

	Eligible Applications	Selected in Lottery
L2	386 (\$25M+)	189 (\$12M)
DCFC	57 (\$7.75M)	14 (\$3M)

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

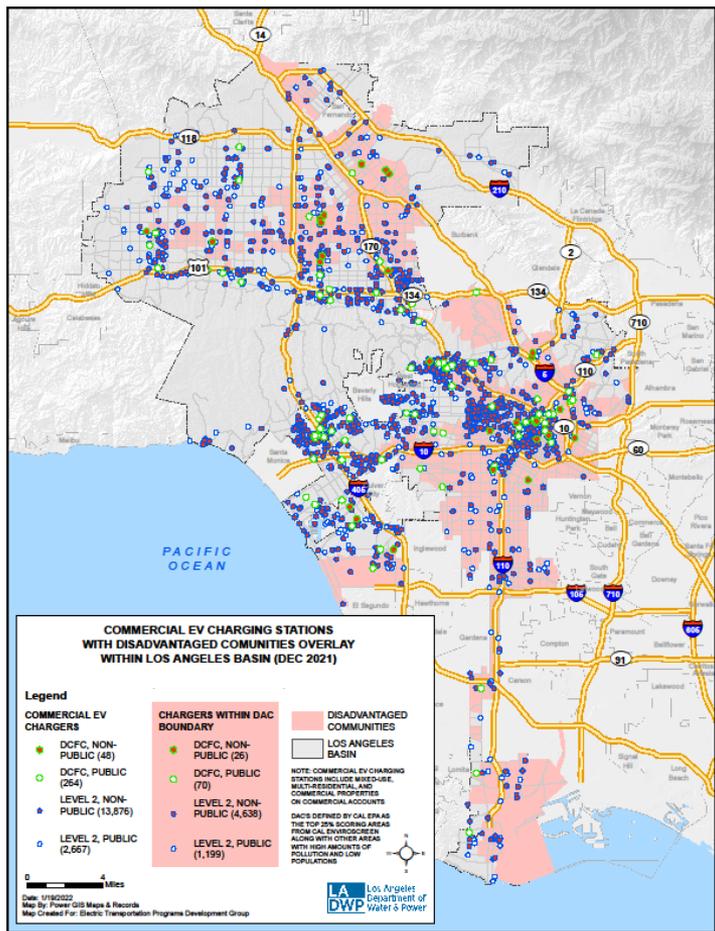
# Charge Up L.A.! Rebate Programs Applications



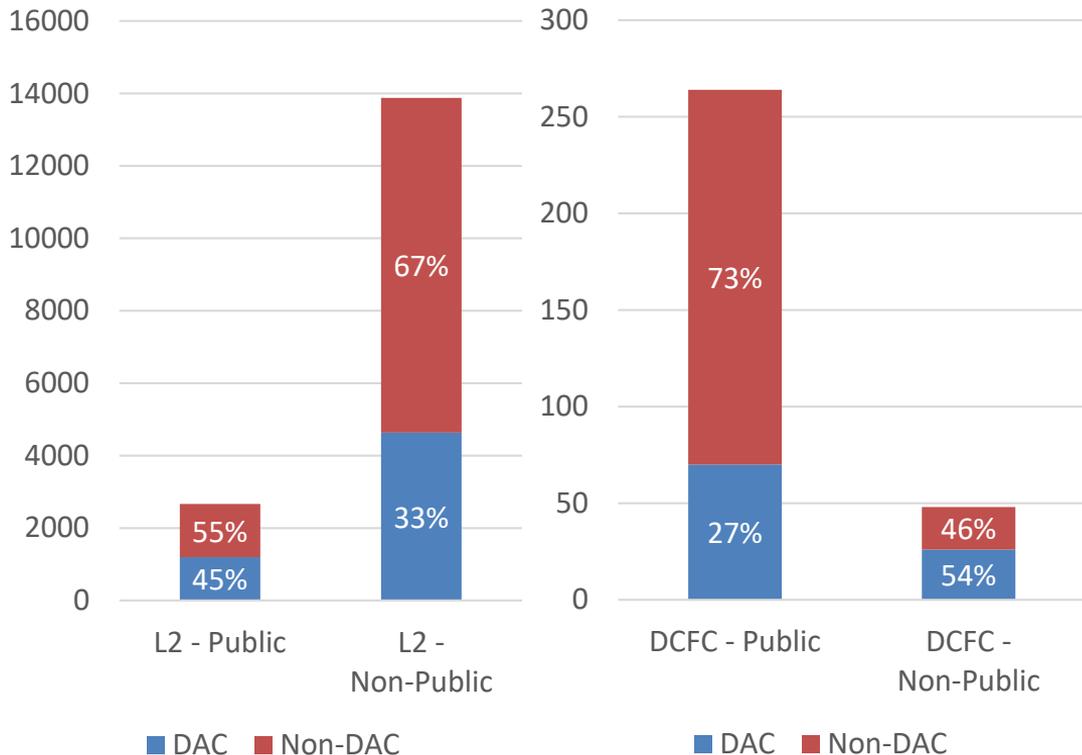
EV Rebates Funding Sum FY 19-20 to date (\$M)

Since 2019  
LADWP has offered  
\$101 Million  
In EV Rebates

# Charger Installations in Disadvantaged Communities (DACs)



## Charging Stations in Los Angeles



# Upcoming State and Federal Funding Opportunities

**Federal: The Joint Office of Energy and Transportation was created through the Bipartisan Infrastructure Law (BIL) to facilitate collaboration between the U.S. Department of Energy and the U.S. Department of Transportation.:**

- 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
- States must submit an EV Infrastructure Deployment Plan no later than August 1, 2022

**California: Governor's Budget Proposal invests an additional \$6.1 billion over five years for Zero-Emissions Vehicle (ZEV) acceleration**

- Targeted investments in disadvantaged and low-income communities
- Summer: Budget passed by the Legislature and signed by the Governor



Thank You!

# Appendix

# 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**

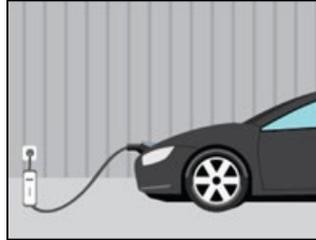
## DC Fast Chargers

- \$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**

# EV Charging Options & Speeds



**Level 1  
Charging**



**Level 2  
Charging**



**DC Fast  
Charging**



Home

Home, Work,  
Apartments

Public, Plazas, & Retail



3 - 5 miles/hr

10 - 30 miles/hr

150 - 350+ miles/hr

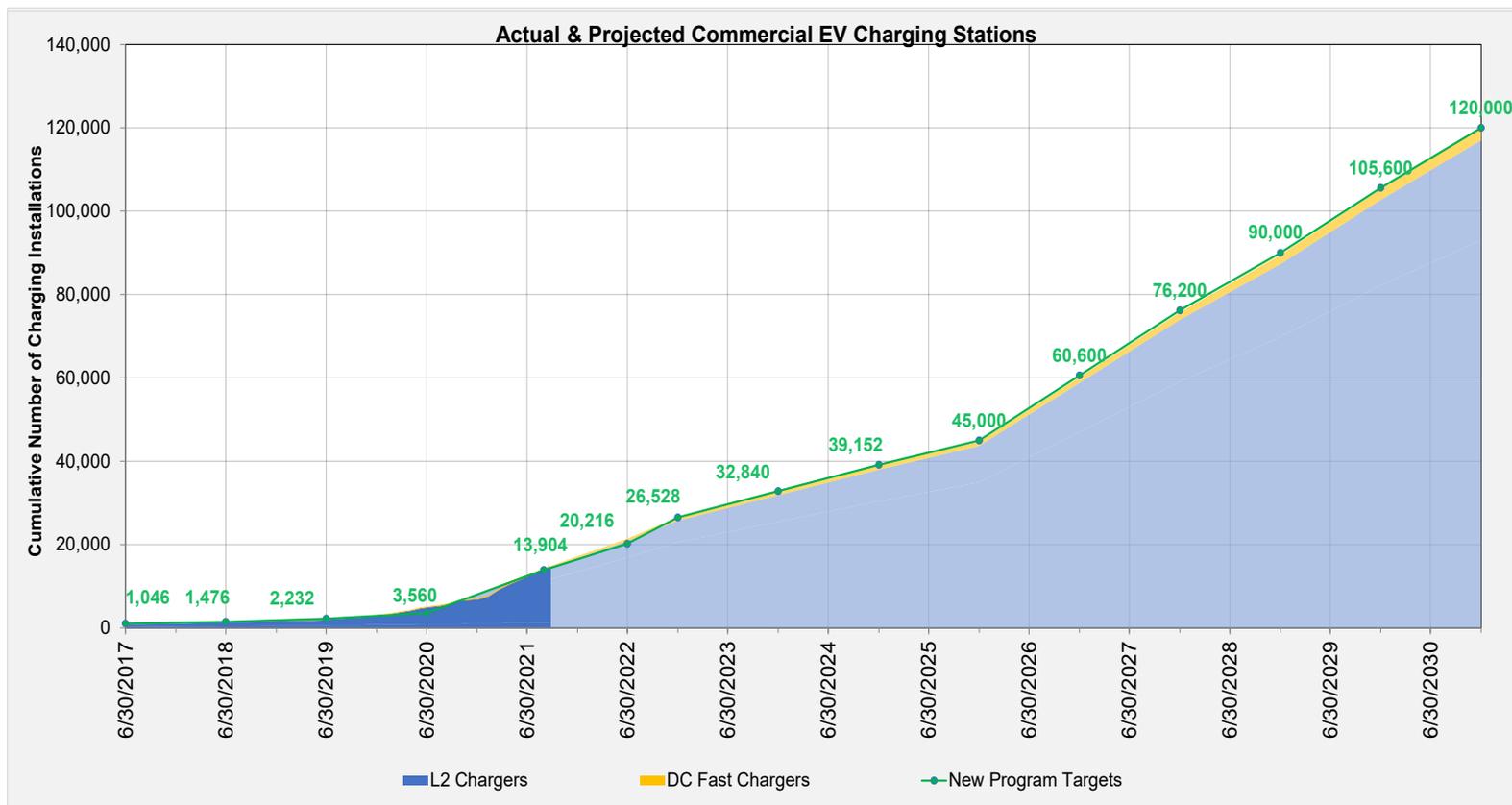


20+ Hours

4 - 6 Hours

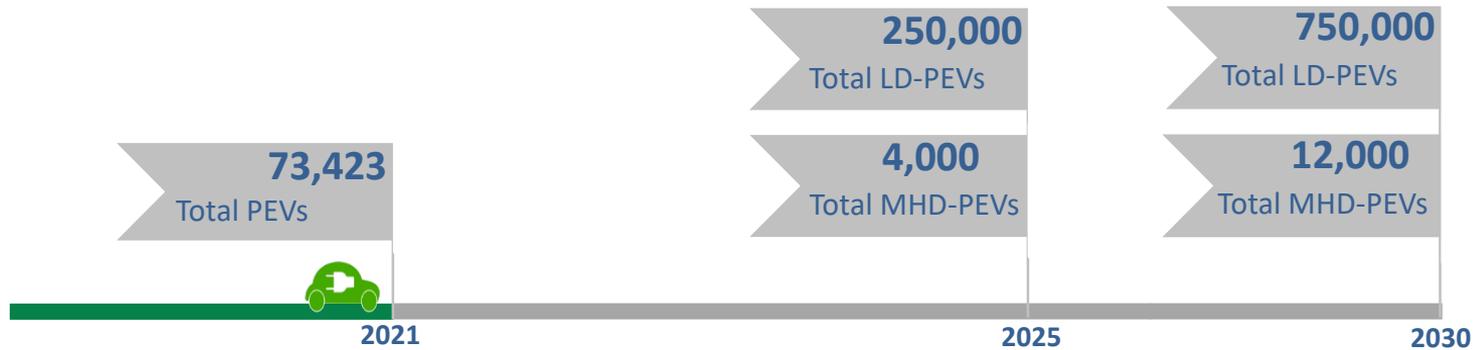
15 - 45 Minutes

# Progress towards Revised Goals

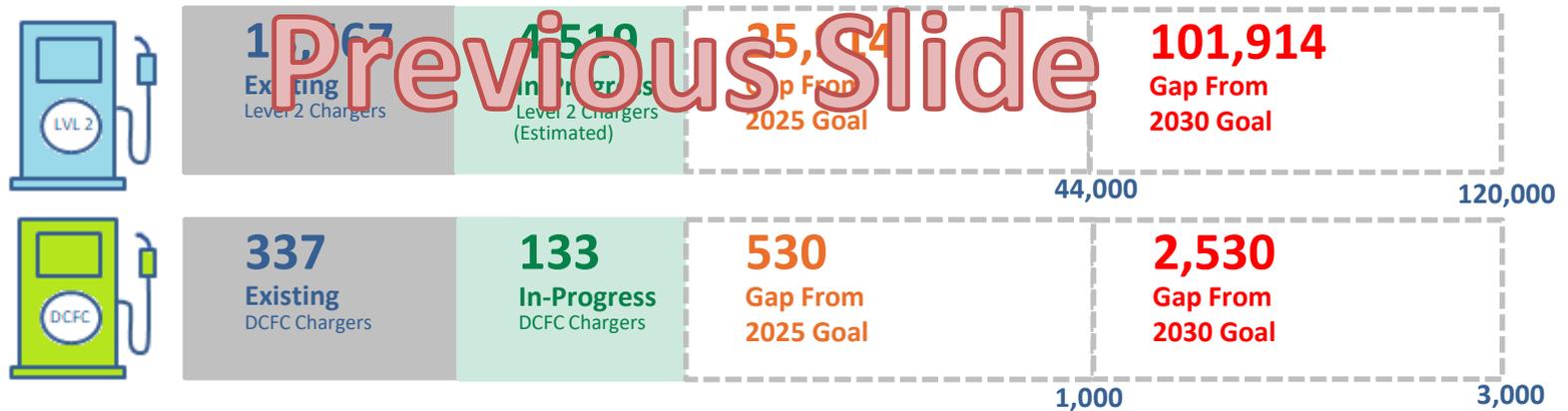


# Revised EV Adoption Goals & Infrastructure Needs

## Vehicles

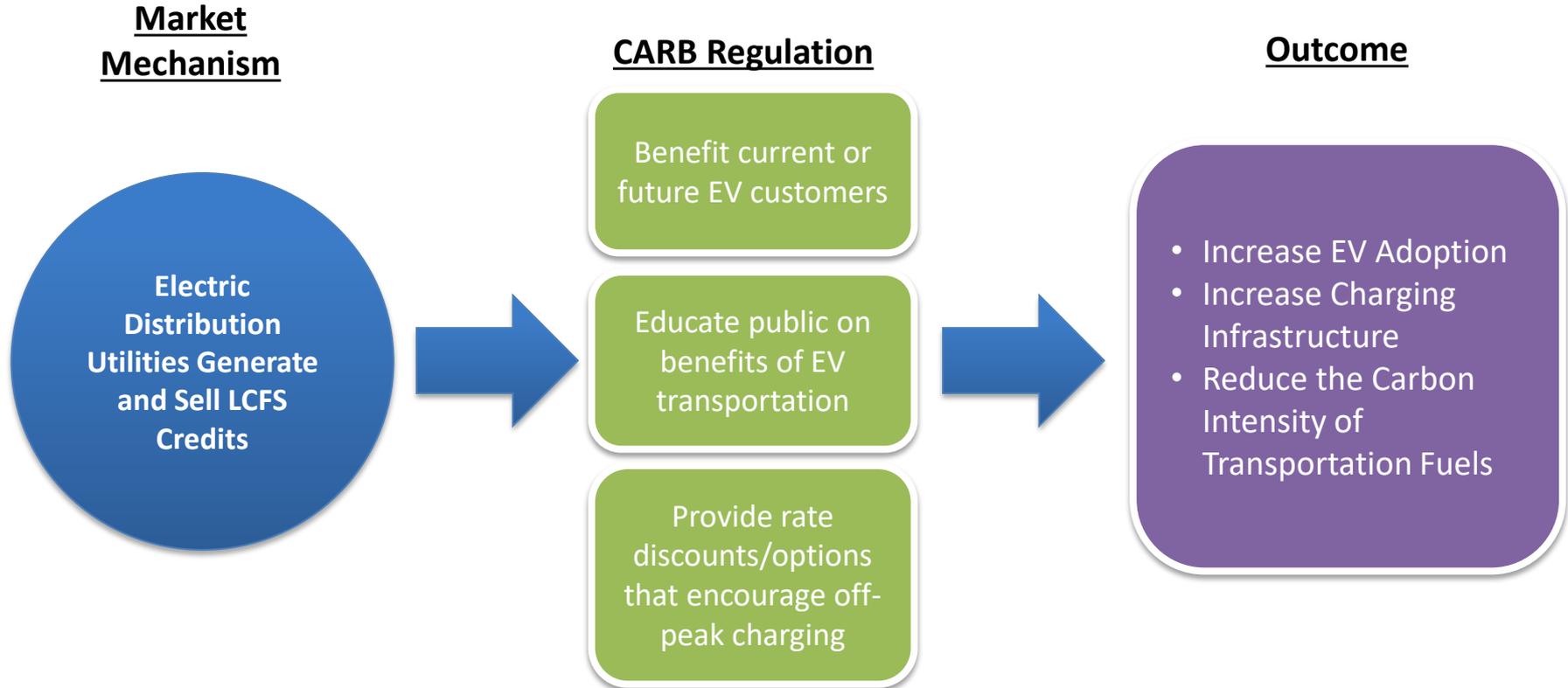


## Infrastructure

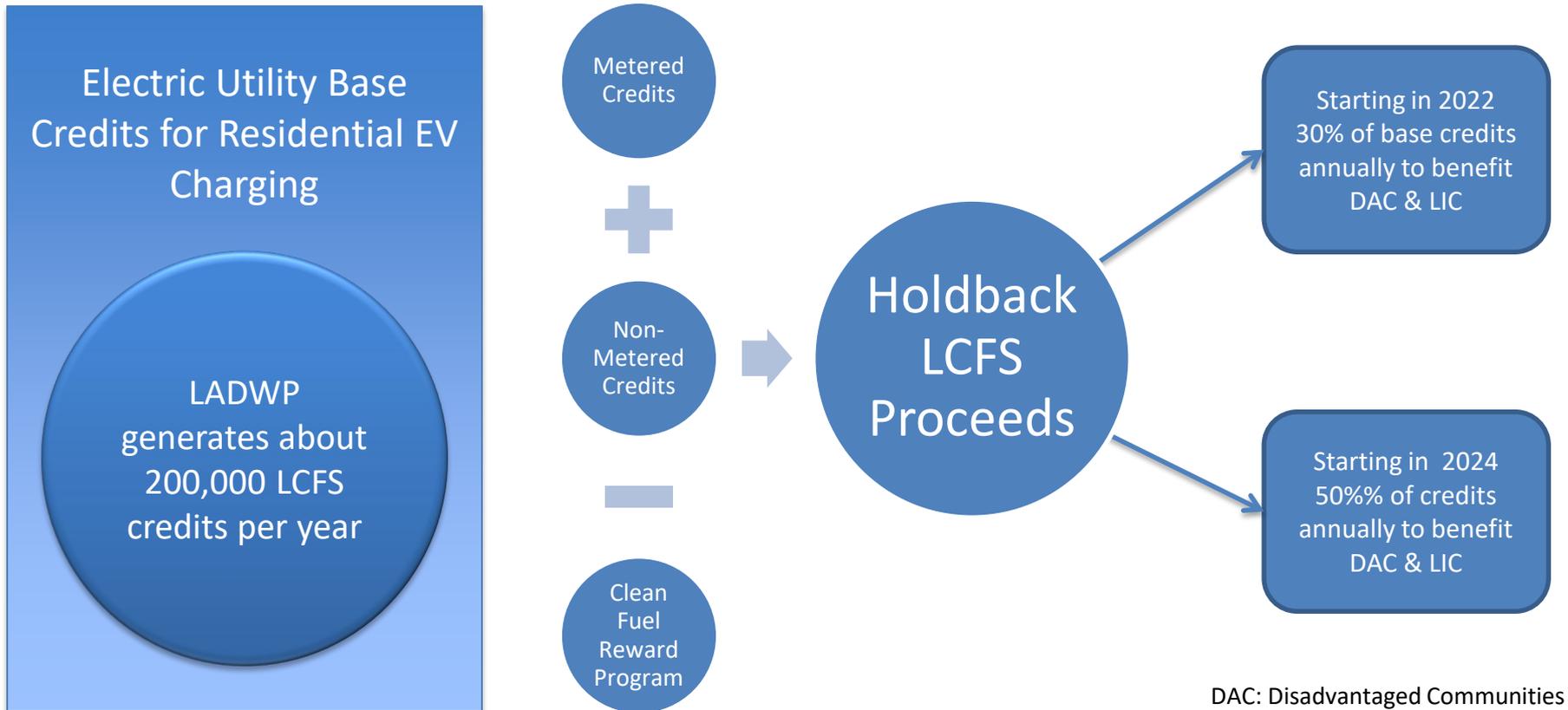


**Achieving the New Goals Bridges the Gap needed to Spur Targeted EV Adoption**

# Low Carbon Fuel Standard (LCFS) Credits



# How LCFS Credits are Generated



DAC: Disadvantaged Communities  
LIC: Low Income Communities

# Expand LA's Public Charging Network

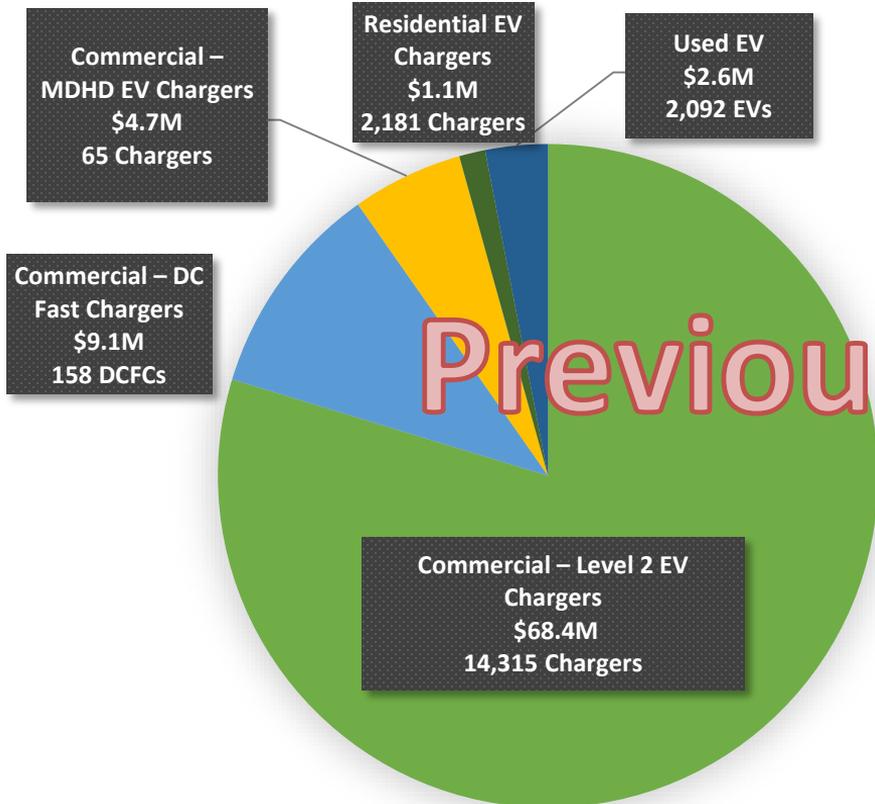
<b>Action</b>	Facilitate Expansion of Public Charging Infrastructure in Los Angeles
<b>Time frame</b>	(1-9 years)

## 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.

# Charge Up LA Rebate Programs Applications



Previous Slide

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

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

# Citywide EV Master Plan Development

## Stakeholders



## Process

