

Contract Number: ML18059

City of Glendale Electric Vehicle Charging Stations

Contractor Organization: City of Glendale

March 7, 2023

Final Report for MSRC Contract No. ML18059



Prepared for the Mobile Source Air Pollution Review Committee (MSRC) under the AB
2766 Discretionary Fund Work Program.

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City of Glendale

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EV Structure:

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This report was submitted in fulfillment of Contract ML18059 by the City of Glendale under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of December 19, 2022.

The statement and conclusions in this report are those of the contractor and not necessarily those of the Mobile Source Air Pollution Reduction Review Committee (MSRC) or the South Coast Air Quality Management District (South Coast AQMD). The mention of commercial products, their sources or their uses in connection with material reported herein is not to be construed as either an actual or implied endorsement of such products.

Background and Purpose

The City of Glendale has supported transportation electrification for many years and continues to install electric vehicle charging stations throughout the City. These installations are done to support the Advanced Clean Cars II rule to have all light-duty vehicle sales be zero emission vehicles by 2035 and have 250,000 EV chargers in California by 2025.

The locations and projects for this grant were selected based on potential for use as well as 24/7 availability. Most locations are in high traffic areas and zones that offer various amenities that drivers can use while charging their vehicles. The Transportation Center location was also selected to support efforts for electrifying transit centers ahead of the 2028 Summer Olympic Games in Los Angeles. Future EV charging stations are planned at this site as well.

These installations were done to increase the City of Glendale's public charging infrastructure and promote transportation electrification for light duty vehicles among Glendale residents and visitors.

Scope

Install new electric vehicle charging stations that are available 24/7 at various public facilities throughout the City of Glendale. These include:

Glendale Marketplace Parking Structure

120 S. Artsakh Ave.
Glendale, CA 91205
18 single-port L2 stations
3 L2 dual-port stations
1 DCFC station, 1 CCS/CHADEMO combo port
Opened: December 2022

Glendale Transportation Center

400 W. Cerritos Ave.
Glendale, CA 91204
1 dual-port L2 station
Opened: July 2022

City Hall Parking Lot

120 N. Isabel St.
Glendale, CA 91206
2 dual-port L2 stations
Opened: December 2020

Civic Center Parking Structure

650 E. Wilson Ave.

Glendale, CA 91206

6 single-port L2 stations

Opened: May 2019

Cost Projections and Economic Analyses

The projects completed prior to 2021 were completed on schedule and within expected costs. Due to global supply chain issues that started in 2021, completion for the projects at the Glendale Transportation Center and Glendale Marketplace Parking Structure were delayed for approximately 6 months and 1 year respectively due to electrical equipment delivery delays. Equipment for all projects were procured prior to supply chain constraints and did not impact costs. However, the delay with completing construction negatively impacted the City of Glendale's goals to complete these 2 projects by June 2022.

Recommended Future Actions

The following actions should be taken by the City of Glendale to support transportation electrification in the community:

- Continue to install public charging stations at all city-owned lots where feasible and cost effective. Some lots and public areas do not have sufficient electrical capacity for EV chargers and adding them in these areas would not be cost effective.
- Install more DC fast chargers in areas that have potential for high turnaround.
- Consider curbside EV charger installations. This approach will help provide charging to areas where there are little to no city-owned facilities.
- Prioritize EV charger installations in underserved areas, particularly in disadvantaged communities, low-income zones, and areas with a high dispersion of multi-family residences. This promotes EV adoption among groups that currently have low adoption rates.
- Procure major equipment like EV chargers, meter pedestals, and switchboards as soon as possible as these items still have major delivery delays. This will help reduce overall construction timelines.
- Continue to educate customer base on transportation electrification programs, projects, and benefits.
- Collaborate with commercial customers to install EV chargers that are accessible to the public or employees.
- To maximize GHG reductions, Glendale should continue to invest in clean electricity generation sources.

Outreach

Outreach done for the projects under this grant includes hosting a Ribbon Cutting Ceremony for the Glendale Marketplace Parking Structure EV chargers, issuing a press release and media advisory for the Ribbon Cutting event, and social media posts on Glendale Water & Power's and the City of Glendale's social media channels. Future outreach will include articles in the City of Glendale and Glendale Water & Power newsletter, and continued posts on Glendale Water & Power's social media channels. The press release can be viewed at

<https://www.glendaleca.gov/Home/Components/News/News/8728/16?backlist=%2fgovernment%2fdepartments%2fglendale-water-and-power>



Ribbon Cutting Ceremony Invite



Glendale Marketplace Parking Structure EV Charging Stations



Glendale City Hall EV Charging Stations