


**CITY OF LOS ANGELES  
INTER-DEPARTMENTAL CORRESPONDENCE**

**DATE:** May 17, 2021

**TO:** Municipal Facilities Committee

**FROM:** Sandra M. Russell, Police Administrator   
Commanding Officer, Facilities Management Division  
Los Angeles Police Department

**SUBJECT:** PROGRESS REPORT ON THE INSTALLATION OF ELECTRIC VEHICLE CHARGERS  
AT LAPD FACILITIES

**Recommendation**

That the Municipal Facilities Committee note and file this report.

**BACKGROUND.**

The Los Angeles Police Department (LAPD) made an initial installation of 104 Electric Vehicle (EV) Chargers at the Motor Transport Facility located at 260 South Main Street in May of 2016, to support the initial lease of 100 fully electric administrative support vehicles which were leased as part of a planned multi-year electrification of the Department’s non-emergency response fleet. Due to a lack of chargers in other locations in the City, the LAPD embarked on an aggressive campaign to install chargers at all Area stations and other core facilities to increase the range and functionality of the 200 EV.

**BUDGET EXPENDITURES AND REQUESTS**

Funding Provided FY 15/16	\$1.47 mil
Funding Provided FY 16/17	\$1.62 mil
Funding Provided FY 17/18	\$2.65 mil
Funding Provided FY 18/19	\$2 mil
Funding Provided FY 19/20	\$1 mil
Funding Provided FY 20/21	\$0 mil
Funding Provided FY 21/22	\$1 mil
<b>Total</b>	<b>\$9.74 mil</b>
<b>COSTS:</b>	
Main Street Chargers	\$1.47 mil
Phase II	\$1.62 mil
Phase III – B Sites	\$1.85 mil
Phase III – A Sites	\$3.65mil
Phase IV – Proposed Cost	\$3.15mil
<b>Total</b>	<b>\$11.74 mil</b>

**SCHEDULE OF INSTALLATION**

<b>LOCATION</b>	<b>#DCFC FLEET</b>	<b>#L2 FLEET</b>	<b>DATE OF INSTALLATION</b>	<b>#L2 CEC PUBLIC</b>	<b>DATE OF INSTALLATION</b>
<b>Phase 1</b>					
Main Street Parking	4*	100	6/25/2016		
<b>Phase 2</b>					
Central PD	1	3	7/15/2017		
77th PD	1	3	7/21/2017		
North Hollywood PD	1	3	8/28/2017	2	10/18/2017
Harbor PD	1	3	8/24/2017	3	10/18/2017
Pacific PD	1	3	8/10/2017		
ARTC	1	3	8/21/2017		
EVOC	1	3	8/28/2017		
West Valley PD	1	3	8/28/2017		
Topanga PD	1	3	9/14/2017	2	10/18/2017
<b>Phase 3</b>					
<b>Phase 3B</b>					
Newton	1	3	8/10/2018		
Hollenbeck	1	3	8/10/2018	2	10/18/2017
Olympic	1	3	8/10/2018	2	10/18/2017
Rampart	1	3	8/10/2018		
Mission	1	3	8/10/2018	2	10/18/2017
Valley Traffic	1	3	1/1/2019		
Foothill	1	3	1/1/2019		
Van Nuys	1	3	2/28/2019		
Devonshire**	1	3	6/30/2019		
Northeast◊	1	21	4/1/2018		
<b>Phase 3A</b>					
Wilshire‡	1	3	4/21/21		
Southwest‡	1	3	7/31/20		
Hollywood‡	1	3	8/11/20		
Elysian Park∞	1	3	Dec-21		
West LA∞	1	3	Oct-22		
Southeast∞	1	3	Dec-21		
<b>TOTAL</b>	<b>29</b>	<b>193</b>		<b>13</b>	
*1 DCFC 50/3 DCFC 25/currently reviewing a new type of fast charger that has internal battery storage.					
‡These sites require DWP equipment upgrades and are completed.					
∞These sites require additional DWP equipment upgrades which is a time consuming process that can have a duration of up to 3 years to complete.					
◊ Seven L2 chargers were installed when the station was built, 15 additional chargers have been added in 2020 as part of the parking structure project.					
# L2 CEC Public - California Energy Commission Grant Funded Publicly Accessible EV Chargers. All available DWP grant funding were utilized and expended.					

## **CURRENT STATUS AND CHALLENGES**

The LAPD has made substantial progress installing EV Chargers, working with the Bureau of Engineering, the Department of Water and Power and the City's current vendor, Green Lots. Of the 26 locations scheduled for the initial deployment of EV Chargers, only two are currently waiting for installation activities to commence. These facilities pose the most significant challenges, with three sites needing additional power transformers installed.

The design work necessary for the transformer upgrades and power lines are being completed by DWP engineers who are actively participating in the projects. Construction plans are being submitted for Bureau of Engineering and Building and Safety review. The three additional facilities that required substantially more detailed design for the placement of power poles and pulling additional power to the site. However upon further investigation, two sites were found to be cost prohibitive to proceed with power line extension. The third site required a power re-assessment due to neighboring master plan project that has potential impact to the power upgrade. LAPD will proceed with additional transformer installations that will provide sufficient power for current needs; however, it will result in limiting future expansion. The initial DWP cost estimates for the installation of the additional power were estimated to be between \$500,000 to \$610,000 for each site; however, as DWP progressed with site assessments, the costs could potentially range from \$450,000 to \$1.7 million. The initial estimates were provided by DWP were based on standard distance calculations and did not account for topographic constraints to meet the infrastructure requirements. The increase in costs requires utilizing funds from Phase 4 in order to complete Phase 3. Funding will need to be available to pay for the DWP work prior to issuing a notice to proceed for construction. Additional new technologies such as higher powered battery storage equipment is currently being evaluated to address the limitations of available power at the sites.

COVID-19 has created delays due to field staffing shortages; this has impacted the schedules. Additional delays are anticipated due to various Departments' budget reductions, furloughs and retirements which will reduce the availability of staffing to assist in the timely completion these projects.

## **FUTURE GROWTH**

With the completion of the on-going installation projects, the LAPD will have met its basic need to be able to deploy Electric Vehicles and continue the electrification of the non-emergency response fleet. With the direction from the Mayor's Office and the Governor's 2035 zero emission order, increased usage of fully electric vehicles and the constantly growing capacity of batteries, the LAPD will need to continue the development and growth of the power infrastructure and capacity of EV Chargers being installed. Currently, the DC Fast Chargers are rated at 50kw. The next phase of growth for LAPD facilities, once funding is identified, will be to upgrade power to the facilities and evaluate back-up power source capabilities. This will be necessary to efficiently charge light and heavy-duty trucks, transport vehicles, and eventually fully electric emergency response vehicles. If funding is not identified, it will limit the future deployment of Electric Vehicles in the Department. This will delay the Department's progress towards the zero emission vehicles goals, due to limited availability of high-powered chargers to meet both City and vehicle requirements.

Where possible, the Department has installed infrastructure that will support the additional and larger capacity chargers knowing that the demand and technology will continue to develop. The Department will continue to request funding through the budget process to increase capacity and build an infrastructure that will allow the Department to achieve the increasing goals set by the Mayor's Office in the Green New Deal and the Governor's Executive Order N-79-20 for zero emission vehicles.