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April 19, 2019

The Honorable Greig Smith, Chair  
Information, Technology, and General Services Committee  
Los Angeles City Council

The Honorable Nury Martinez, Chair  
Energy, Climate Change, and Environmental Justice Committee  
Los Angeles City Council

c/o Leyla Campos  
Office of the City Clerk  
Room 395, City Hall  
Los Angeles, CA 90012

## **COUNCIL FILE NO. 18-0600-S118: CITY'S MID AND LONG TERM NEEDS TO ADDRESS THE GROWING USE OF ELECTRICAL VEHICLES**

On May 21, 2018, during the Budget Hearing, the following request was made:  
Pursuant to adoption of the Mayor's 2018-19 Budget on May 21, 2018, Council File Number: 18-0600-S118 - Instruct the Bureau of Engineering to report to the Information, Technology, and General Services Committee and Energy Climate Change, and Environmental Justice Committee on the City's mid- and long-term needs to address the growing use of electric vehicles.

### **DISCUSSION**

The Mayor's Sustainable City pLAN mandates improvements to air quality and a reduction of greenhouse gas (GHG) emissions from municipal transportation and fleets. The Citywide Electric Vehicle (EV) Charging Station Infrastructure program, which includes several City departments, facilitates the transition to zero-emission transportation through fleet conversion to electric vehicles (EVs). Based on the status of the most recent outcomes, there are more than 2,000 publicly available EV chargers, with more than 250 (including direct current (DC) fast chargers) installed in City facilities, and 50% of the City's light duty vehicles being purchased are EVs.



The Bureau of Engineering (BOE) provides technical engineering support for various EV infrastructure projects being implemented by the Los Angeles Department of Transportation (LADOT), the Los Angeles Police Department (LAPD), and the Department of General Services (GSD). These projects are found within municipal facilities and on curbside right-of-way locations as well. In all cases, the Bureau of Engineering is tasked with ensuring that the City's EV infrastructure vendors design and installations meet rigorous safety requirements.

Other City Departments and Bureaus, such as the Los Angeles Department of Water and Power (LADWP), the Los Angeles World Airports (LAWA), the Port of Los Angeles (POLA), the Department of Recreation and Parks (RAP), the Los Angeles Fire Department (LAFD), the Bureau of Street Lighting (BSL), and the Bureau of Sanitation (BOS) are concurrently implementing the installation of EV charging stations in their respective facilities, where BOE support activities are not required at this time.

**1. Mid-Term Needs** – As construction of EV chargers in City facilities and on City streets continues, each installation requires the following activities:

- The City Departments need to identify and define the required number and location of EV chargers in their facilities, as well as the electrical power required for those chargers.
- In existing facilities, available power capacity of the existing electrical infrastructure must be evaluated to verify if additional EV chargers can be supported, while ensuring there is enough power for all the other building tenants to use for other applications.
- Identify funding, grants, and rebate opportunities.
- Operation and maintenance requirements for the EV infrastructure should be established. Currently, the EV vendors have a three or five year maintenance contract for all the City's EV chargers. If City staff were to take this over, training and funding would be needed for the City's maintenance groups like GSD Building Maintenance Division (BMD), to undertake the maintenance of the EV charging stations in the City facilities.

**2. Long-Term Needs** – The goal in the Mayor's Sustainable City pLAN is to increase the percentage of zero emission vehicles in the City to 10% by 2025 and 25% by 2035. These targets are expected to be accelerated significantly with the release of the four year update to the Sustainable City pLAN in 2019. To address the growing use of electric vehicles, the City should continue to plan as follows:

- Continue to develop more EV charging stations in City facilities.
- A comprehensive EV infrastructure strategy would be useful to implement the City's goal.
- As the capacity and technology of the electric vehicle supply equipment (EVSE) continues to be upgraded in terms of power requirements and fast charging capabilities, it is essential to consider upgrading the LADWP power utility electrical infrastructure to accommodate future EV power needs.

- Additional funding should be available to support the continuous evolution of EV infrastructure in City facilities.
- The relevant City Departments should continue to identify grant and rebate programs to support the City's EV infrastructure in City facilities.

Respectfully submitted,

A handwritten signature in blue ink that reads "Gary Lee Moore for". The signature is written in a cursive, flowing style.

Gary Lee Moore, PE, ENV SP  
City Engineer

GLM/DW:cj

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cc: Jessica Caloza, Board of Public Works  
Michael Samulon, Mayor's Office  
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