



City of Westminster

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FINAL REPORT

CONTRACT NO. ML18037

Electric Vehicles & Charging Station Installation Project – 2017 Local Government Partnership Program

City of Westminster

January 28, 2020

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

Acknowledgements:

City of Westminster Engineering Division

City of Westminster Community Services Department

City of Westminster Fleet Division

City of Westminster Building Division

City of Westminster Building Maintenance

This report was submitted in fulfillment of Contract No. ML18037 and Electric Vehicles & Charging Stations Installation Project for 2017 Local Government Partnership Program by City of Westminster under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of December 20, 2019.

Disclaimer:

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 (SCAQMD). 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.

Summary and Conclusions:

Background - City of Westminster has been investigating into providing electric vehicle charging stations for the past few of years. In 2015, City applied for MSRC grant on install Electric Vehicle Supply Equipment (EVSE). In 2017, multiple EVSEs were installed in the city for the general public and city fleet usage. For AQMP Jumpstart program, City of Westminster proposed a three phase project; obtain light-duty zero emission vehicles as part of city's fleet, obtain a zero emission shuttle for Community Services, and to install additional EVSEs in the city. City is actively seeking ways to reduce carbon footprint within the city. The transitioning of the city's fleet and shuttle into zero-emission vehicles is a great start. Westminster will continue to build on this program to hopefully on day convert our entire fleet into clean air vehicles.

EVSE - 40A EVSE for general public usage was installed. This is generally sufficient for light duty passenger vehicles. For the charging of city's zero emission shuttle, a100A level two EVSE and a level three DC charger were installed. This will ensure faster charging of the zero emission shuttle. For construction, the City requested multiple proposals for the installation of the EVSE. The lowest bidder was awarded for the installation which also included the signing and stenciling of the parking spaces. A coordinated installation schedule with the Community Services Department and Building Maintenance was required for the installation of the EVSEs at the city's community services building to ensure events and programs for seniors were minimally impacted. A DC fast charging station was installed at the City's Corporation Yard. It included both CHAdeMO and CCS standards for charging of both fleet vehicle (CSS) and the shuttle (CHAdeMO).

Electric Vehicles – The City of Westminster's Westminster-On-Wheel (WOW) Senior Transportation Program acquired its first zero-emission shuttle. This transportation service assists seniors that resides in the city to remain independent. The program provides travels to various shopping centers and senior housing facilities throughout the county. In addition to the shuttle, three light-duty zero emission vehicles were added to the city's fleet. The vehicles will be used by city staff and inspectors for daily tasks and inspections within the city. These vehicles will allow the city to take its first step into reducing emissions within the city. They are

also a great way to bring awareness and promote the use of clean air vehicles for Westminster businesses, residents and employees.

Emission Benefit - As electric vehicle becomes more mainstream and with larger battery capacity, emission benefits from electric vehicles can be significant. Based on EPA's greenhouse gas equivalencies calculation of 1 kWh = 0.703 kg of GHG, the estimated savings in GHG for this project is 17,000 kg per year. This is under the assumption that each public level 2 charging stations will be providing 2,000 kWh/year and city's zero-emission shuttle will use 14,000 kWh/year and fleet vehicles will use 6000 kWh/ year of charging. Actual savings can be computed once actual energy usage becomes available.

Pictures & Outreach Material:



Electric Vehicles

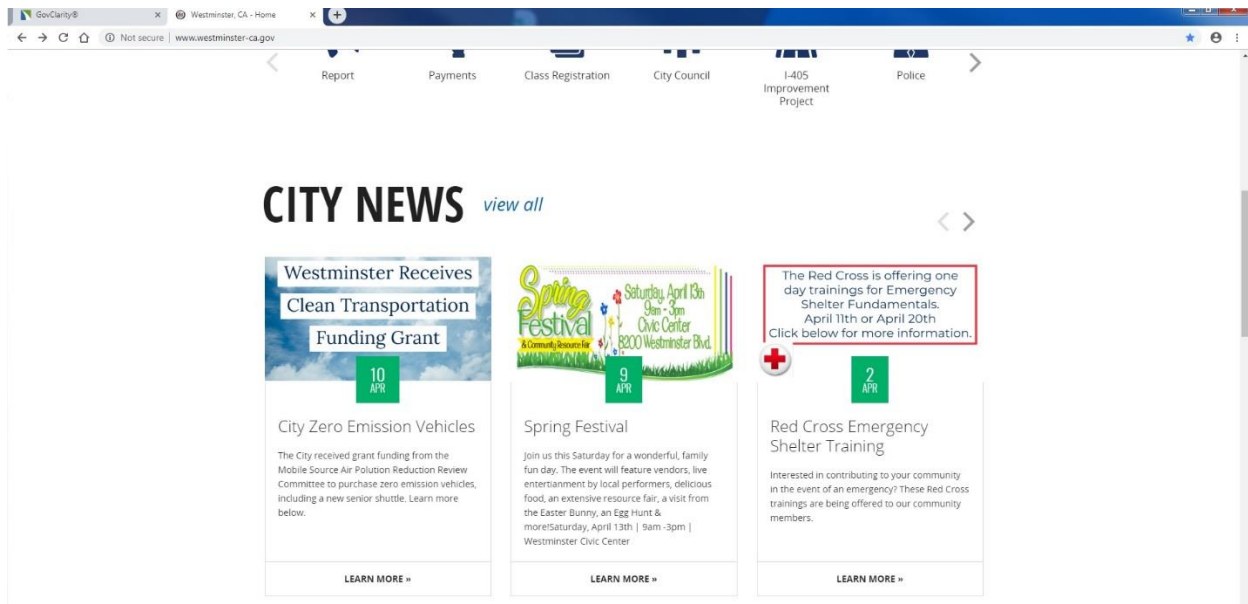


Level 2 EV Charging Stations – Community Services Parking Lot



DCFC - CHAdeMO & CCS – Public Works Maintenance Yard

City's web page announcement



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CITY OF WESTMINSTER ACQUIRES ZERO EMISSION VEHICLES

CITY OF WESTMINSTER, CA - [March 29, 2019] - To promote the use of clean air vehicles, the City of Westminster is procuring zero emission vehicles as well as installing additional charging stations. With the help of a grant of \$120,900 in Clean Transportation Funding from the Mobile Source Air Pollution Reduction Review Committee (MSRC), the City is providing the city's first electric shuttle for use with the WOW (Westminster on Wheels) Senior Transportation Program, first set of electric fleet vehicles, and charging stations at the Community Services parking lot for public use and City's Corporation Yard for fleet use.

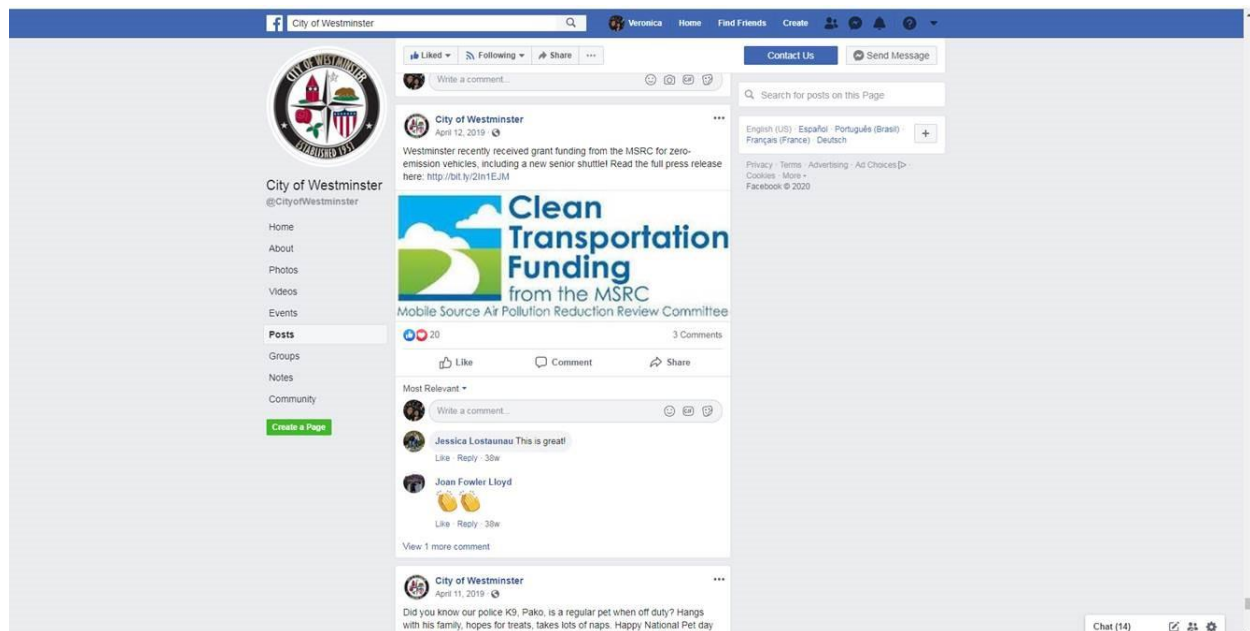
The City received funding through the MSRC's Local Government Match Program, which provides up to a dollar-for-dollar match to co-fund clean air projects implemented by eligible cities and counties within the South Coast region. The MSRC allocates Clean Transportation Funding from a \$4 surcharge on vehicle license fees, specifically to be used for local projects designed to reduce air pollution from mobile sources such as cars, trucks and buses. Over its 25-year history, the MSRC has distributed more than \$400 million in funding to innovative clean air projects, like Westminster's new charging stations, throughout Los Angeles, Orange, Riverside and San Bernardino Counties. Such projects have helped to remove as much as 13,000 tons of air pollution from the skies of Southern California.

"With recent installation of charging stations, it is time for City to take advantage of the stations by acquiring electric vehicles for our fleet," noted Marwan Youssef, Public Works Director for the City of Westminster. "Providing zero emission fleet vehicles and shuttle for our senior transportation program is a great way to promote the use of clean air vehicles for Westminster residents and employees."

The electric shuttle, fleet vehicles, and charging stations at the Community Services parking lot should be in service by the end of June 2019. The charging station at the Corporation Yard should be in service by the end of November 2019.

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Facebook Posting



Ribbon Cutting Ceremony (1/27/2020)

