

FINAL REPORT FOR AB 2766 DISCRETIONARY FUND

CONTRACT ML 18077

CITY OF ORANGE

November 5, 2019

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

Acknowledgements

The City of Orange would like to thank the following entities:

Clean Transportation Funding from MSRC

MSRC Staff for their assistance answering questions and providing grant procedures

South Coast Air Quality Management District

City of Orange Public Works Department
Maintenance and Fleet Divisions

MEMA Municipal Equipment Maintenance Association

Government Fleet Magazine

This report was submitted in fulfillment of ML18077 and Zero Emission Electric Vehicle Project by City of Orange under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of February 14, 2018

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 is not to be construed as either an actual or implied endorsement of such products.

Project Description & Work Performed

The City of Orange is replacing existing City vehicles with ultra-low or zero emission vehicles. At a minimum, new City vehicles shall be low emission vehicles as defined by the California Air Resource Board with vehicle types that are currently available in the marketplace. The scope of work included the purchase of four (4) 2018 Ford Focus to replace three (3) existing gas fueled vehicles that exceed their normal service life and required replacement. The fourth EV has been added to the fleet for our Police Department, used for our Crime Prevention Division.

Unit / Department	Vehicle	Model Year	Delivered	Vendor	Inv #	Inv Date	PO#	PO Date	In Service Date
1755 - Finance	Ford Focus	2018	1/24/2018	Ford of Orange	480302	1/23/2018	109773	9/29/2017	2/2/2018
1752 - Fire Dept	Ford Focus	2018	1/24/2018	Ford of Orange	480396	1/23/2018	109773	9/29/2017	1/25/2018
1754 - Community Dev.	Ford Focus	2018	1/24/2018	Ford of Orange	480299	1/23/2018	109773	9/29/2017	2/12/2018
1753 - Police Dept	Ford Focus	2018	2/13/2019	Ford of Orange	480571	2/13/2018	109773	9/29/2017	2/14/2018



The second project is the purchase and installation of, eight (8) EVSE Private Charging Stations.

3	Dual head EVSE level 2 Charges totally 6 single charges	Aeroviroment	51242	12/14/2017	109973	12/13/2017
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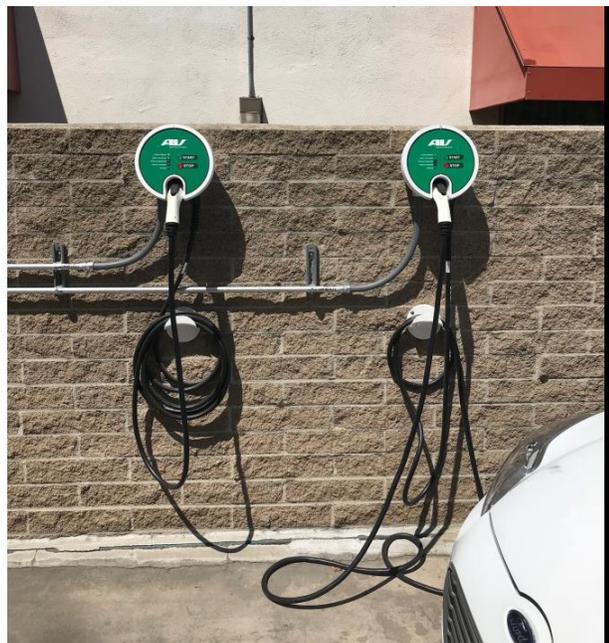
Qty	Description	Vendor	Inv#		PO#	PO Date	Installation Date
6	Install Charging Station - City Hall, Fire Dept, PD & Corp Yard	American Electric Co.	110059	1/31/2018	110059	1/29/2018	1/22/2018
2	2 dedicated circuits (208V) to electric vehicle charging stations	Magnetic Electric Inc	PD 041718	4/17/2018	110272	4/25/2018	5/7/2018

- 1. **Civic Center 300 E. Chapman Ave**
- 2. Fire Department 176 S. Grand St
- 3. 1107 N. Batavia Ave
- 4. 637 W. Struck Ave



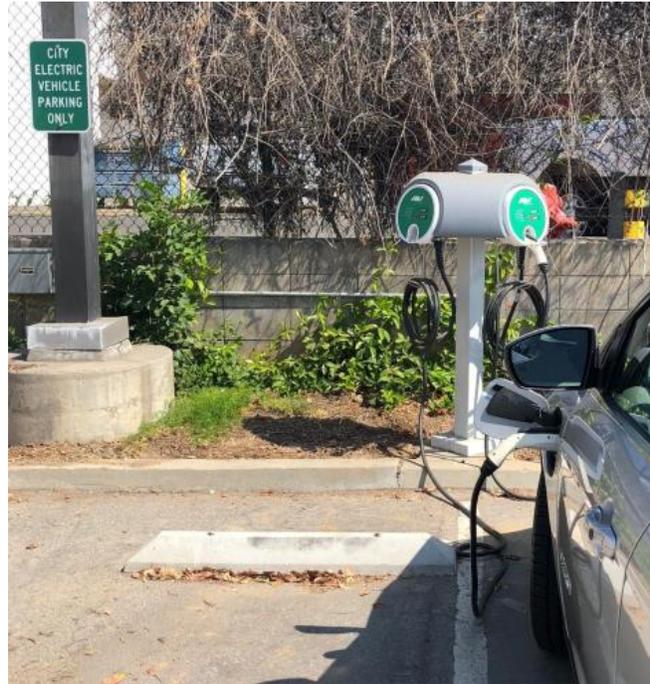
1. City of Orange – Civic Center

- 5. Civic Center 300 E. Chapman Ave
- 6. **Fire Department 176 S. Grand St**
- 7. 1107 N. Batavia Ave
- 8. 637 W. Struck Ave



2. City of Orange – Fire Department, Station 1

- 9. Civic Center 300 E. Chapman Ave
- 10. Fire Department 176 S. Grand St
- 11. 1107 N. Batavia Ave**
- 12. 637 W. Struck Ave



3. City of Orange – Police Department HQ

- 13. Civic Center 300 E. Chapman Ave
- 14. Fire Department 176 S. Grand St
- 15. 1107 N. Batavia Ave
- 16. 637 W. Struck Ave**



4. City of Orange – Corporation Yard

Problems Encountered

Additional infrastructure needed to be installed at the City of Orange Fire Department Headquarters to supply power to the two EVSE Level II Charging Stations. This required a main service electrical panel up grade.

Emissions Benefits

The City of Orange's commitment to reducing its carbon footprint as well as fiscally healthy community by protecting air, water and energy resources from pollution and overuse.

Photographs & Outreach

The outreach plan was implemented as noted in the Summer 2018 "Our Orange" newsletter, both online and in print.

The newsletter cover features the title "Our Orange" in a large, stylized font. Below the title is a red banner with the text "YOUR CITY • YOUR NEWS • YOUR ACTIVITIES". The main image shows a group of children in swimwear sitting by a swimming pool. At the bottom, there are three smaller images: "Elections" with a ballot box, "Partner with Us" with a family, and "Camps" with a child. The City of Orange logo is at the bottom left, and the text "Summer 2018" is at the bottom right. The website "www.cityoforange.org" and Facebook link "www.facebook.com/cityoforange" are also present.

ORANGE PLUGS IN

We all have a stake in our environment, and if we all find ways to make little changes, we may find that they can lead to big impacts.

Case in point: With 25 square miles to care for, our City of Orange staff members log many, many miles driving from one work site to another. This adds up to a lot of gas being consumed. Fortunately, we recently found a way to reduce our use of fossil fuels and save our taxpayers some money. All it took was a little "electric slide."

When it came time to replace four of our City fleet vehicles, we decided that electric was the way to go. Funding from California Air Resources Board's Clean Vehicle Rebate, along with a generous grant from State AB 2766—legislation that allows for funding of projects that reduce pollution—allowed The City of Orange to purchase four brand new plug-in electric vehicles. The best part? There was no cost to the City for these vehicles.

The addition of electric vehicles to our fleet joins several other initiatives implemented over the years by the City of Orange to conserve our resources, combat pollution, and reduce our carbon footprint. These include solar panel installations, smart irrigation at our parks, the adoption of LED streetlights, and drought tolerant landscaping at some City maintained properties.



SUMMER READING BOOK SALE

The Friends of the Orange Public Library will be hosting a special book sale featuring children's and teen books on Saturday, June 16, 10 a.m. to 2 p.m. Proceeds from the sale go directly to support materials and programs at the Orange Public Library.

The sale will be held in the Children's Courtyard at the Orange Public Library & History Center, 407 E. Chapman Ave.

For more information, please call (714) 258-2424.

BARNES AND NOBLE BOOKFAIR

Please stop by the Orange Barnes and Noble, 791 S. Main St., 100, for a Bookfair in support of the Orange Public Library.

Visit the Orange Barnes & Noble and they will send a portion of each purchase back to the Orange Public Library. During the week, Barnes & Noble will also be hosting free family special events.

Purchases will require a code, which you will find along with more information and a schedule of events at www.cityoforange.org. Just go to the Orange Public Library homepage.

A good book is like a good friend, and couldn't we all use more good friends?

Book Fair dates:
Monday, August 13 – Saturday, August 18
Book Fair Voucher Code: 12340675

ORANGE SEED LENDING LIBRARY

The trend of heirloom seed sharing ensures that historic varieties of plants and vegetables – those not grown in large commercial farms – continue to be available to the public.

The Orange Public Library Foundation, Orange Home Grown, and the Orange Public Library & History Center are proud to offer the Orange Seed Lending Library, which offers free heirloom seeds with the hope that they will nurture a new generation of backyard farmers and seed savers.

Pick up the free seeds from the Orange Public Library & History Center, located at 407 E. Chapman Ave. Once you grow your heirloom plants, we encourage you to let some "Go to seed," so that you can return what you borrowed.



www.opifoundation.org

Summary and Conclusion

Provide for a safe community – Provide staffing and resources to deliver services that ensure public safety.

Provide and maintain infrastructure necessary to ensure public safety

Be a fiscally healthy community – Expend fiscal resources responsibly.

Protect air, water and energy resources from pollution and overuse.

Work toward replacing existing City vehicles with ultra-low or zero emission vehicles. At a minimum, new City vehicles shall be low emission vehicles as defined by the California Air Resources Board, except if certain vehicle types are not available in the marketplace. Public safety vehicles are exempted from this requirement.

Infrastructure goal: Ensure adequate maintenance of public rights-of-way to enhance public safety and improve circulation.

Public Safety Element Goal: Provide public safety services of the highest quality.