



MSRC Final Report:

Contract #ML18031

Low-Emission Vehicles and EV Charging Stations

City of Diamond Bar

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

Acknowledgements

In partnership between the City of Diamond Bar and South Coast Air Quality Management District (SCAQMD), the use of AB 2766 Grant Funds from the Mobile Source Air Pollution Reduction Review Committee (MSRC), the City was able to partially procure two (2) light-duty zero emission vehicles and install five (5) electric vehicle charging stations at the City Hall parking lot.

This report was submitted in fulfillment of Contract #ML18031 and Electric Vehicle by the City of Diamond Bar's Public Works Department under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee. Work was fully completed as of November 28, 2023.

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

Project Description & Work Performed

The City of Diamond Bar purchased and installed five (5) level II UL-certified Noodoe electric vehicle charging stations plus one (1) single pedestal and two (2) dual pedestals at the City Hall parking lot, located at 21810 Copley Dr, Diamond Bar, CA. Stations are available for public use 24 hours a day, 7 days a week. The scope of work included the design, engineering, and installation of the charging stations also consisted of the following:

- Procurement and installation of a step-down transformer from 480- to 208-volt to ensure that power level is suitable for EV charging;
- Installation of electric vehicle charging stations and wheel stops; framing and pouring three (3) pedestal pads;
- Running approximately 100 feet of conduit from panel "GLA" to the outside of the building in designated location next to the ATS switch; power conductors from panel "GLA" to new charging stations;
- Trenching and backfilling approximately 90 feet to the furthest charging station and installing PVC conduits to feed power to the new charging stations;

- Restoring landscaping and irrigation that are impacted by this project; stripping of parking stalls; and commissioning of charging stations;
- Procurement of all requisite permit fees (waived by the City for this project); and,
- Hosting training sessions of Noodoe EV OS that includes setting up an EV charging site, activating charging station.

Problems Encountered

In mid-2021, after the City had selected the lowest responsive bidder (Noodoe Inc), Noodoe had attempted to exit out of the terms and budget set forth in their submitted proposal. After a considerable amount of time and effort spent in contract negotiations, Noodoe finally agreed to move forward with this project.

Based on the City's Statement of Work that was submitted, the purchase and installation of electric vehicle charging stations was a prerequisite to purchasing the low-emission vehicles. The delays from the installation created a domino effect in the purchase and receipt of the two (2) Ford F150 crew low-emission trucks, which already had its own issue of supply shortages in the midst of the COVID-19 pandemic.

Lastly, the City experienced staff shortages and turnover, which impacted the amount of time dedicated to the management, planning, and research aspects of this project.

Photos & Outreach

In the month of their completed installation, the electric vehicle charging stations were featured in the December 2021 Diamond Bar Connection Newsletter.



In December 2022, there was a public release on both Noodoe and PR Web websites showcasing the EV charging stations and Diamond Bar's Councilmember Steve Tye charging his car!



Noodoe EV Completes Charging Station Installation For City of Diamond Bar - Company Responded to Government RFP with Lowest Price, Best Equipment

Noodoe EV, a global leader in EV charging technology, has completed installation of five W1000 chargers for the city of Diamond Bar, California. The announcement was made by Noodoe CEO Jennifer Chang. Diamond Bar is a city in eastern Los Angeles County known for pioneering alternative energy efforts, including building the first hydrogen fueling station in Southern California. The city's latest EV charging stations were installed courtesy of grant money provided by the Air Quality Management District (AQMD).

More than two years after the installation, the EV charging stations continue to be a valuable, popular resource to the Diamond Bar community.



In November 2023, the City received the two (2) Ford F150 zero-emission trucks, which have been utilized as a “daily use” means of transportation for the Public Works and Community Development departments.



Summary and Conclusion

This project has quickly proven itself to be extremely beneficial for the local community. The City is proud to have secured the extremely low cost of \$45,000.00 for the procurement and installation of five charging stations through Noodoe Inc.

The California Air Resources Board, in their approval of the Advanced Clean Cars regulation in 2022, set out an ambitious goal of phasing out gas vehicles. By the year 2035, 100% of cars and light trucks sold in the State will be zero-emission vehicles. Additionally, the State offers rebate programs that provide monetary incentives for consumers to purchase or lease electric vehicles, which only increases the demand for them. In response to this, the City is thankful to receive AB 2766 Discretionary Fund as a financial means to increase constituents' accessibility to EV charging and ultimately improve air quality while reducing greenhouse gas emissions.