

MSRC/SCAQMD Contract No. ML18049

Final Report for the City of Downey Electric Vehicle Charging Stations Project

9/30/19

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

This report was submitted in fulfillment of Contract No. ML18049 and CIP 19-15: Electric Vehicle Charging Stations Project by the City of Downey under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed as of August 2019.

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 and Work Performed

In February of 2018 the Downey City Council approved the submittal of a grant application for a second round of AB 2766 MSRC Discretionary Fund grant funds through the SCAQMD for the procurement and installation of additional electric vehicle charging station units at the following publically accessible locations:

- Furman Park- 10419 Rives Ave, Downey, CA 90241
- Discovery Park/Columbia Memorial Space Center- 12400 Columbia Way, Downey, CA 90242
- Independence Park -12334 Bellflower Blvd, Downey, CA 90242
- Rio Hondo Golf Course- 10627 Old River School Rd, Downey, CA 90241
- Wilderness Park- 10999 Little Lake Rd, Downey, CA 90241
- Rio San Gabriel Park- 9612 Ardine St, Downey, CA 90241

In March 2018, SCAQMD awarded the City a MSRC Discretionary Fund grant for \$148,260 under the AB 2766/MSRC Local Government Partnership Program. This second grant from the MSRC would help the City continue ongoing efforts to improve air quality and promote environmental stewardship in our community. A contract was executed between the City and the MSRC on July 6, 2018.

On November 27, 2018 City Council approved plans and specifications and authorized procurement of six dual-port ChargePoint electric vehicle charging stations and related City-furnished materials. ChargePoint was selected on the basis of their competitive pricing, reliable hardware, responsive customer service, cost-friendly maintenance program, effective fee collection services, intuitive reporting and remote communication software.

The construction work for the project was advertised for bidding in the Downey Patriot on November 29 and December 6, 2018 and published in various trade publications. On December 20, 2018, eleven bids were received with the lowest responsive and responsible being submitted by PMK Professional, Incorporated (PMK) of Irvine, California. On January 22, 2019 City Council awarded a construction contract to PMK Professional, Incorporated for the installation of the charging units and associated electrical infrastructure. The work consisted of the installation of all conduits, conductors, transformers, breakers and other related electrical components at the six electric vehicle charging station sites.

On May 20, 2019, construction work commenced on the project and installation of the stations was completed on June 28, 2019 at the following six locations:

- Rio Hondo Golf Course (one new dual-port EVCS)
- Furman Park (one new dual-port EVCS)
- Discovery Park (one new dual-port EVCS)
- Independence Park (one new dual-port EVCS)
- Wilderness Park (one new single-port EVCS and one new dual-port EVCS)
- Rio San Gabriel Park (one new single-port EVCS and one new dual-port EVCS)

All stations were installed as described per Attachment 1 of the Statement of Work of MSRC/SCAQMD Contract no. ML18049.

Problems Encountered

During the electrical permit plan check process, modifications to the construction plans were required to comply with current Americans with Disabilities Act (ADA) regulations and standards.

On May 28, 2019, the City Council approved Change Order No. 1 for additional work at the six locations so that they would be constructed to comply with current ADA standards. Under this change order, the City also pursued procurement of two additional single-port ChargePoint EVCS and related materials.

Change Order No. 2 was required for costs related to trimming existing hedges and cleaning the existing switchboard at Wilderness Park, constructing additional concrete behind the EVCS at Discovery Park and installing new bus bar hardware in the existing switchboard at Rio Hondo Golf Course. As a result of this additional work the City appropriated additional SCAQMD AB 2766 funds to complete the project.

Emissions Benefits

This funding opportunity from the MSRC allows the community to benefits from convenient access to additional public charging stations, cost savings from electric energy compared to petroleum-based fuel and a reduction in greenhouse gas emissions to support regional efforts towards achieving environmental sustainability and healthier air quality standards.

The emissions benefits to date (July 1st 2019 through September 30, 2019) from this project are quantified via the following metrics:

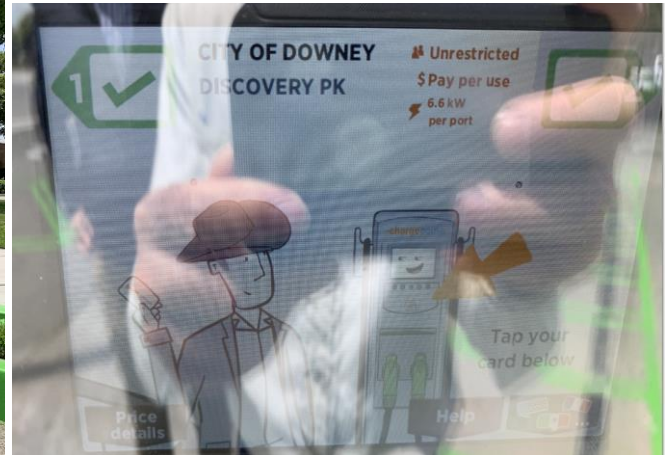
- Energy dispensed – 14.267 MWh
- GHG savings – 5,992.33 kg
- # of sessions – 790
- Average session length – 2:33:26 (hrs:mins:secs)
- Gasoline savings – 1,790.55 gallons

Project Photographs

Furman Park- 10419 Rives Avenue, Downey, CA 90241



Discovery Park/Columbia Memorial Space Center- 12400 Columbia Way, Downey, CA 90242



Independence Park -12334 Bellflower Boulevard, Downey, CA 90242



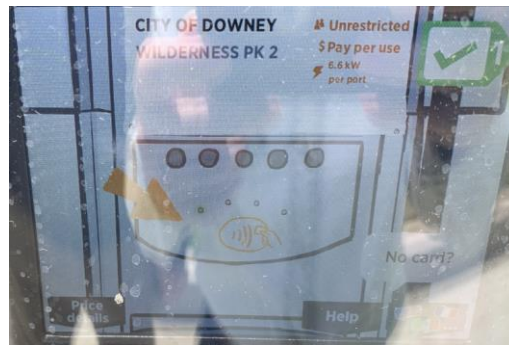
Rio Hondo Golf Course- 10627 Old River School Road, Downey, CA 90241





Wilderness Park- 10999 Little Lake Road, Downey, CA 90241





Rio San Gabriel Park- 9612 Ardine Street, Downey, CA 90241

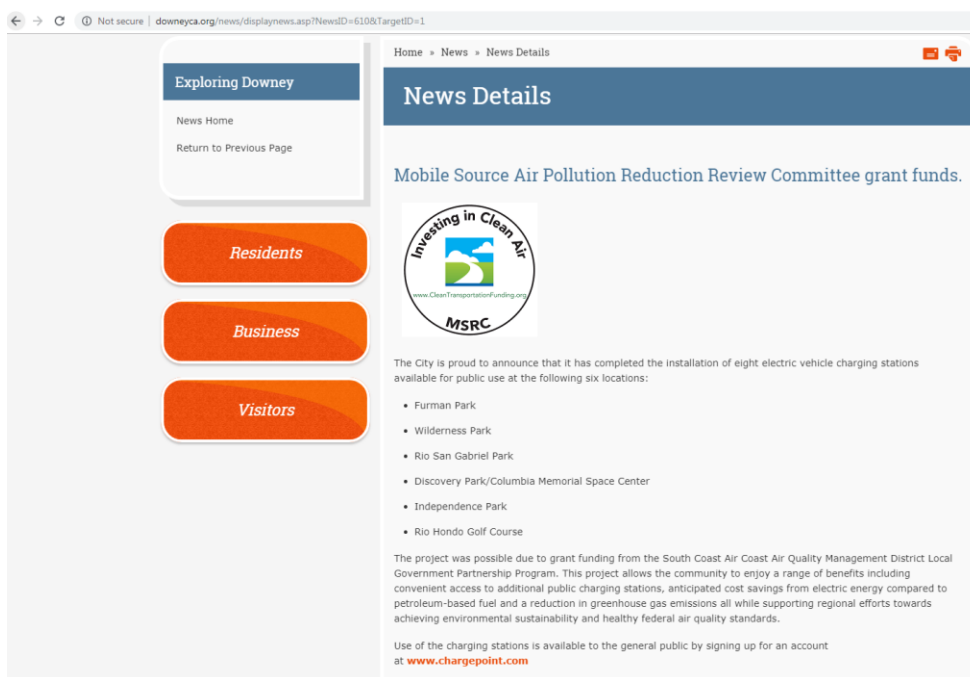


Public Outreach

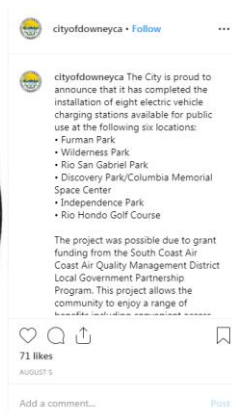
Public outreach consisted of posting project information across various digital platforms including the City website on the “City News” section of the City of Downey home page, digital message monitors located throughout the lobby at City Hall and our various City of Downey social media accounts including Twitter, Facebook and Instagram.

The first outreach information was released in June 2019 and notified the public about a new project underway to install EV stations at six publically-accessible locations throughout the City. The second round of posts was released in July 2019 and announced project completion and that all EV stations were now activated and fully operational.

Screenshot of City Website:



Social Media Pages- Instagram and Twitter:



Summary and Conclusions

The MSRC grant was an invaluable source of funds that enabled the City to successfully implement installation of additional publically-accessible electrical charging stations throughout the City. Thanks to these grant funds the City is proud to have a total of EV Stations and 10 publically-accessible sites across the Downey community. The project promotes the City's commitment to environmental sustainability and clean energy transportation.

The City looks forward to continuing to promote environmental sustainability and enjoying the emissions reduction benefits from the installation of the electric vehicle charging stations, a project that would not have been possible without the assistance of the MSRC grant funds and the South Coast Air Quality Management District.