



# **CITY HALL - EV CHARGING STATIONS PROJECT**

FINAL REPORT  
CONTRACT # ML18162

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

## **ACKNOWLEDGEMENT**

The City of Costa Mesa would like to acknowledge the Mobile Source Reduction Review Committee for its funding and program support and guidance.

The completion of this project would not have been possible without the cooperation and partnership of IDS Group (Design Consultant), Amtek (General Contractor), ChargePoint and Southern California Edison.

Our sincere thanks, also goes to the City Council, the Building Department and the Public Services Department of the City of Costa Mesa for their great support and hard work.

This report was submitted in fulfillment of MSRC Contract # ML18162, for the project entitled “City Hall EV Charging Station - City Project No. 20-20” by The City of Costa Mesa under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). The project was completed in early December and the EV charging stations are publicly available as of December 20, 2020.

## **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

**Background:** On July 17, 2018, the City Council ratified Resolution No. 18-51 authorizing the Public Services Department to submit an application for the Mobile Source Air Pollution Reduction Committee (MSRC) Local Government Partnership Program and execute any contracts, agreement, and documents necessary for the purpose of obtaining the grant funding. An application to install electric vehicle chargers at City Hall and purchase electric vehicles was formally submitted thereafter.

**Scope of Work:** The City Hall Electric Vehicle (EV) charging stations project included design and installation of (5)-five electric vehicle (EV) charging stations at City Hall and the creation of (9)-EV Parking Stalls. The completed project includes (2)-dual port Level II charging stations at the back of City Hall to serve (4) EV Parking Spaces; And (2)-dual port Level II charging stations plus (1)-DC fast Level III charging station to serve a total of (5)-EV Parking Stalls in front of City Hall. The Electric Vehicle Charging System (EVCS) includes the electrical infrastructure improvements to connect all the EV charging stations to the existing City Hall switchgear and install the new electrical equipment that provides a completely operational and fully functioning EVCS.

**Design:** IDS Design Group was retained to complete the design of the project. The contract was awarded on December 2, 2019 and the design was completed by April 2020.

**Construction:** Amtek was awarded the contract as the lowest responsive bidder. Construction of the City Hall EV charging Stations started on September 18, 2020 and was completed on December 7th 2020.

The completed EVCS meets accessibility requirements and is open to the public 24 hours a day 7 days a week. The City Hall Electric Vehicle (EV) charging stations are a shared benefit of the City fleet, City residents, and visitors of Costa Mesa City Hall.

## PROBLEMS ENCOUNTERED

**Power Shutdown:** Since the project involved the improvements to the existing switchgear and the components after the existing switch gear. The contractor has to schedule a power shut down to the whole City Hall. That included a Fire station, a Police station, Communication facility for emergency services as well as IT infrastructure. In order to do the shutdown, the Project team had to look for an alternative source of power (generator) to energize these main facilities during the shutdown. It was very challenging to secure a generator especially during the Orange County Fire that occurred in November of 2020. We had to postpone and re-schedule the power shutdown to secure a power generator during the operation. Accordingly, we had to push the completion date of the project for about 10 working days in order to complete the project.

## EMISSIONS BENEFITS

ChargePoint dashboard helps City staff track progress in sustainability and GHG reduction. In less than a month since the EV charging stations have been made available for use, 444kg of GHG emissions has been avoided that is equivalent to planting 11 trees.



## PHOTOGRAPHS & OUTREACH

Below are pictures of the newly built EV charging stations and City EV fleet (3 Chevy Bolts) at the City Hall.



**Outreach/Communication:** To ensure that City of Costa Mesa residents are aware of the new EV charging stations, the Project team worked hand-in-hand with the City’s Public Information Office (PIO) to develop simplified and easy to understand project description/ snapshot. It was later included in the City’s official weekly newsletter that was shared through different communication channels and social media outlets including Twitter, Facebook and LinkedIn.

Public Services



**New electric car charging station completed by Public Services crews at City Hall**



The Public Services Department has completed the installation of electric charging stations at City Hall, the first electric charging stations owned by the City of Costa Mesa. The installation began in September 2020 and was completed in December 2020.

The project involved construction of electrical infrastructure and installation of five electric charging stations at City Hall providing a total of nine EV charging ports. This includes a combination of four dual port Level II charging stations to serve EV Parking Spaces and one DC fast charging Level III.

Costa Mesa residents, City Fleet, and commuters from neighboring cities can now benefit from this publicly available EV charging infrastructure that is accessible, convenient, and meets all applicable ADA requirements.

This project was funded with Mobile Source Air Pollution Reduction Committee (MSRC) Local Government Partnership Program, Southern California Incentive Project (SCIP) grant funding, and Air Quality Management District (AQMD) funds.

The project seeks to facilitate electric vehicle ownership for the Costa Mesa community and commuters by providing publicly accessible charging stations and supports the City's greenhouse gas reduction and sustainability goals.

Detailed information can be found at: <https://myemail.constantcontact.com/Here-is-this-week-s-City-Hall-Snapshot.html?oid=1125606730761&aid=H0nl1pdTfU0>

## SUMMARY & CONCLUSIONS

**Aim/ summary / benefits:** The project aims to facilitate electric vehicle ownership for the Costa Mesa community and commuters by providing publicly accessible charging stations and supports the City's greenhouse gas reduction and sustainability goals.

This project aims to advance sustainability in Costa Mesa by increasing the availability of public electric vehicle chargers in the City while improving local air quality and reducing greenhouse gases (GHG) emissions. The availability of EV chargers at City Hall highlights the City's commitment to environmentally friendly programs, initiatives and technologies that build resilient communities and infrastructure. All Costa Mesa residents, City employees, and commuters from the neighboring cities will be able to benefit from this publicly available EV charging infrastructure that is convenient and accessible.