

Final Report
AB 2766 Discretionary Fund Contract ML18170
City of Laguna Niguel
December 1, 2022

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

Acknowledgments

Acknowledgement is given to the City of Laguna Niguel City Council and the South Coast Air Quality Management District/MSRC for enabling this project to be funded and implemented.

This report is submitted in fulfillment of AB 2766 Discretionary Fund Contract ML18170 and by the City of Laguna Niguel under the partial sponsorship of the Mobile Source Air Pollution Reduction Review Committee (MSRC). Work was completed in June of 2022.

Disclaimer

The statement and conclusions in this report are those of the City of Laguna Niguel and not necessarily those of the Mobile Source Air Pollution Reduction Review Committee (MSRC) or the South Coast Air Quality Management District (SCAGMD). 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 2018, the City of Laguna Niguel's City Council approved a grant application for funding of the subject project under the Mobile Source Air Pollution Reduction Review Committee's (MSRC) 2017 Local Government Partnership Program. At that time, the City Council also allocated matching funds for the proposed project.

The subject project entailed the following:

- A. The installation of two dual-port EV charging stations at the City of Laguna Niguel City Hall site (30111 Crown Valley Parkway) and two dual-port EV charging stations at the City of Laguna Niguel/City of Mission Viejo MetroLink Station site (28200 Forbes Road). These stations are accessible to the public 24 hours per day, 7 days per week.
- B. The procurement of two on-road, light-duty zero emission vehicles.

Due to the high cost of purchasing light duty zero emission vehicles, the City of Laguna Niguel requested permission to reduce the number of vehicles procured for this project from two to one. The elimination of one vehicle resulted in a corresponding reduction in funding for this project element. This request was approved by SCAQMD, and the parties executed a contract modification on October 14, 2022.

The city hired Video Voice Data Communication, dba Voltaic, Inc. to design and construct the facilities. The project was competitively bid through an existing cooperative agreement with Sourcewell (formerly NJPA).

The design/construction included an on-site validation of electrical capacity, transformers, panels, breakers, wiring, cellular coverage and that the station installation met all ChargePoint published requirements. The project also includes a 5-year prepaid commercial network service plan and a 5-year parts and on-site labor warranty on the charging station equipment.

Since construction completion, there have been no operation issues with the charging stations. The new zero emissions vehicle is used as a

city “pool” car experiencing daily use. It was added to the City’s vehicle fleet with no other existing vehicles being replaced.

Problems Encountered

The project construction progressed smoothly without major problems. One issue encountered, which was not directly related to the project but occurred during the construction period, was a major fire outbreak that destroyed several homes in the City. As a result of this fire, construction of the EV charging stations at the City Hall site was delayed a couple of weeks, as City Hall was used as a temporary Emergency Operations Center (EOC). Temporary activity at the site included coordination of operations to serve the residents impacted by the fire. Upon control of the fire and its related impacts, construction of the charging stations resumed without incident.

Emissions Benefit

As a result of the construction of the charging stations and implementing the zero-emission vehicle, the city is promoting the reduction of fossil fuel use. Preliminary data (as of mid-October 2022) shows proof the city is meeting this objective. The analytics summarized in Exhibit A indicate a steady increase in electric energy dispersed and charging stations sessions as well as the savings of greenhouse gases.

Photographs and Outreach

The city’s public outreach effort on this project was extensive. It included announcements on the city’s social medium platform, including their TV channel and website. The city’s charging station locations were also established on the ChargePoint App, so that potential users may locate the sites. The city also implemented

temporary portable charging stations at alternative sites (i.e., the Crown Valley Community Center and City Hall) to create additional exposure to the merits of charging stations. Exhibit B contains project photos and Exhibit C contains proof of the city's outreach efforts.

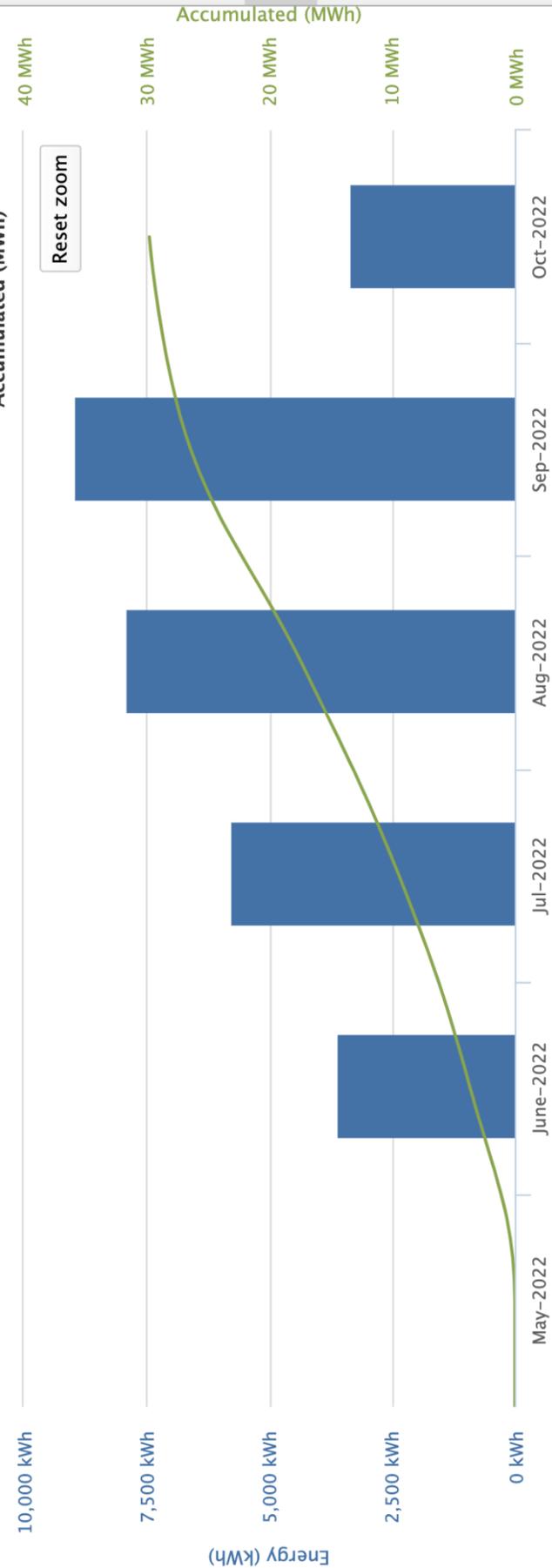
Summary and Conclusions

The construction of the two dual port EV charging stations and purchase and use of the on-road zero emissions vehicle are contributing to the reduction of the use of fossil fuel as documented in this report. The city will continue to promote the use of the electric charging stations and zero emission vehicles and plans to implement additional stations and vehicles as financial resources allow.

Emissions Benefit Analysis
EXHIBIT A

View Energy Breakdown by None Update

By Session Start Time Period Last 365 Days Energy Last 365 Days

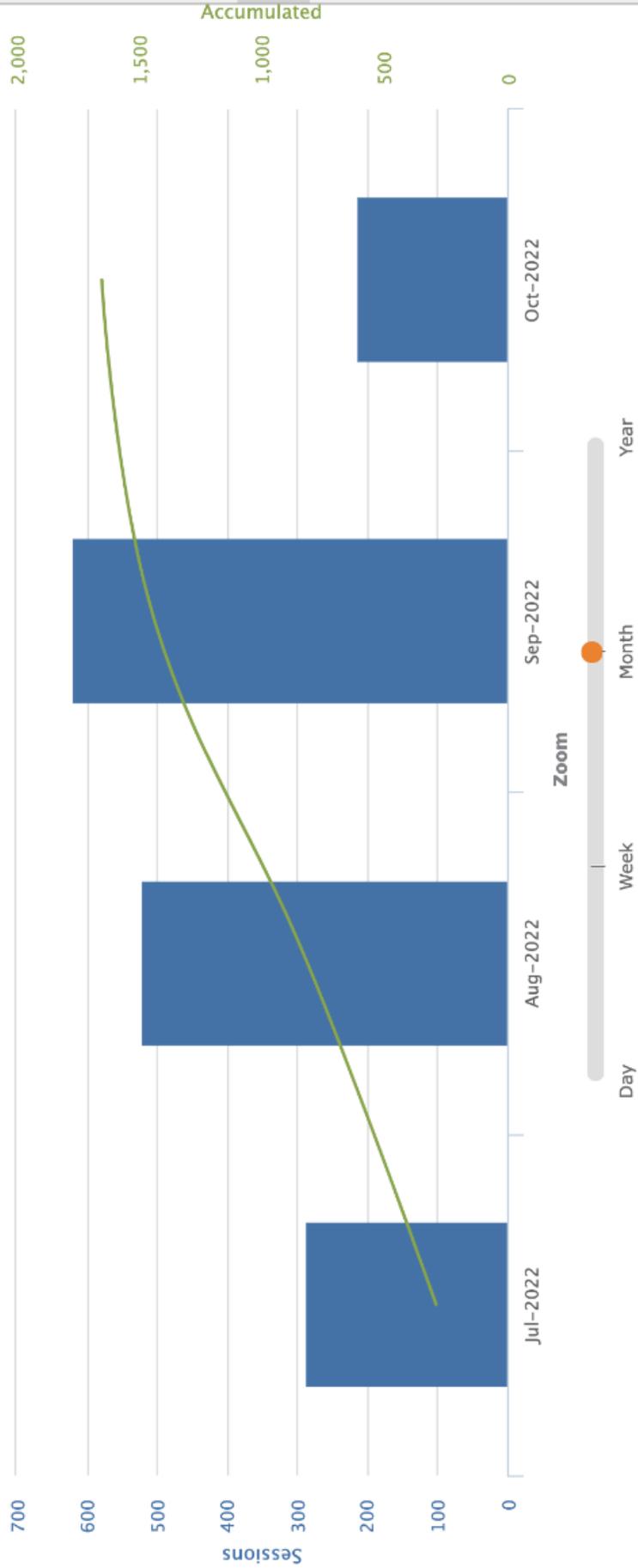


Zoom Day Week Month Year



View Sessions **By** **Period** Last 90 Days **Update** -- Export--

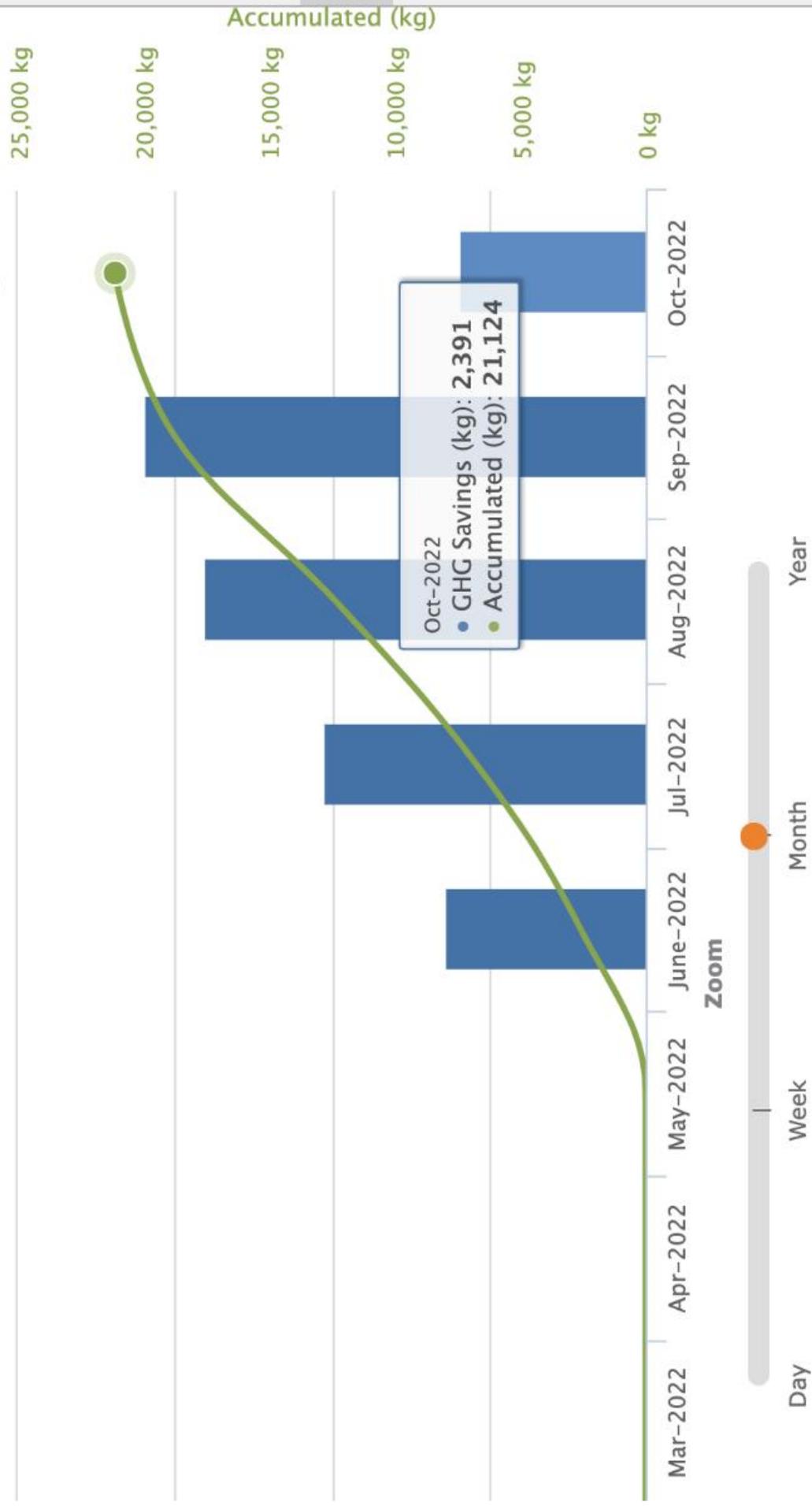
Sessions Last 90 Days



By Session Start Time

GHG Savings This Year

■ GHG Savings (kg)
— Accumulated (kg)



PROJECT PHOTOS
EXHIBIT B



EV charging stations at City of Laguna Niguel City Hall





EV charging stations at the City of Laguna Niguel/ City of Mission Viejo Metrolink Station





City of Laguna Niguel Temporary EV Charging Station



City of Laguna Niguel Zero Emissions Vehicle

Project supported by



**Clean
Transportation
Funding**

from the MSRC

Mobile Source Air Pollution Reduction Review Committee

www.CleanTransportationFunding.org

Public Outreach
Exhibit C



City of Laguna Niguel Outreach Efforts – EV Charging Stations

City's Website – Dedicated Webpage (Continuously Updated)

Link: [Electric Vehicle Charging Stations \(Phase 1\) | the City of Laguna Niguel Website!](#)

Electric Vehicle Charging Stations (Phase 1)



Project Description:

Phase I of this project included the installation of permanent electric vehicle (EV) charging stations at City Hall and the Metrolink Station. This project helps ensure the City has available electric vehicle charging stations at City facilities to support the increasing number of electric vehicles in the community.

The South Coast Air Quality Management District (AQMD) allocated \$85,100 in MSRC grant funding toward the project. The balance of funds to complete the project come from AB2766 funds provided to the City on an annual basis.



One portable and two permanent EV charging stations are installed at City Hall, with the capability to charge six electric vehicles at a time. Two permanent EV charging stations are installed at the Metrolink Station, with the capability to charge four electric vehicles. And one portable EV charging station is installed at Crown Valley Park, with the capability to charge two vehicles at a time. The permanent charging stations are Level II Fast Chargers with each unit capable of conveniently charging two electric vehicles simultaneously.

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All EV charging stations installed at City Hall, Crown Valley Park, and Metrolink Station are available for public use. The two portable EV charging stations were funded by a CalOES grant, and they're free to use. Please stay tuned for more information to come regarding the additional EV charging stations!

Project Schedule:

- **Completion of Design:** January 2022
- **Start of Construction Phase:** May 2022
- **Current Status:** Construction is 100% Complete

Project Funding:

- FY 21-22 Project Budget: \$226,800 (AQMD Fund - MSRC Grant & AB2766)



Social Media (Ongoing Basis)

 **City of Laguna Niguel - Government**
Published by Hootsuite · April 8 ·

Did you know that the City is moving forward with incorporating more EV charging stations? To learn more about current and future EV charging stations available to the public, please visit <http://ow.ly/5Ggn50ICtoE>



Insights unavailable for this post  Boost unavailable

  20 3 Comments 2 Shares

 **Laguna Niguel @LagunaNiguelCty** · Apr 8

Did you know that the City is moving forward with incorporating more EV charging stations? To learn more about current and future EV charging stations available to the public, please visit ow.ly/2X7q50ICtoC





City of Laguna Niguel - Government
Published by Hootsuite · January 13 ·

In order to maintain and improve upon the high quality of life residents and businesses enjoy in Laguna Niguel, the City Council carefully considers which projects are necessary and important to implement each year so that the community may benefit, both now and in the future. Please enjoy this preview of a small portion of the many upcoming projects that are scheduled to be rolled out this year!

The projects presented in this preview focus on safety, efficiency and accessibility!

- Electric Vehicle (EV) Charging Stations:**
We are happy to announce that EV charging stations will be installed at City Hall, Crown Valley Park, and the Metrolink Station. This project will ensure that the City has available EV charging stations at City facilities to support the increasing number of electric vehicles in the community. The construction phase of this project is scheduled to begin in April 2022.
- Curbside Address Number Painting:**
We are happy to announce that the City will resume the service of painting residents' house numbers on their curbs! This service is scheduled to resume in April 2022, and be continued in phases moving forward.
- Interim Parking Lot at Crown Valley Park:**
To accommodate the increased use of Crown Valley Park and to ensure that all visitors have an enjoyable experience, the City has started the construction of an interim parking lot at Crown Valley Park. This project will provide additional parking spaces and will provide the City with a greater understanding of its parking needs at the most frequently visited park in the City. The project is currently scheduled to be completed in April 2022.

The City is proud to implement these projects and the many others that are currently planned and approved. To learn more about the City's comprehensive Capital Improvement Program, please visit <http://ow.ly/ePU450Hu8HH>

See Insights Boost post

36 6 Comments 5 Shares



Mayor's PowerPoint Presentations

February 2022 Presentation

Capital Improvement Projects

My colleagues and I carefully consider and approve projects that are focused on your safety and well-being, maintaining critical infrastructure, and improving your overall quality of life.

- **Scheduled & In-Progress CIP Projects:**
 - EV Charging Stations – Construction Phase Scheduled to Start April 2022 at City Hall and Metrolink Station
 - Crown Valley Park Interim Parking Lot - Scheduled to be Completed April 2022
 - Sea Country Flooring Upgrade – Scheduled to be Completed May 2022
 - La Plata, Marina Hills, & Chapparosa Park Playground Replacement - Scheduled to be Completed May 2022
 - Sea Country ADA Improvements – Scheduled to be Completed August 2022
 - Niguel Rd. (Highlands Ave. to Alta Terra) Resurfacing – Scheduled to be Completed August 2022







May 2022 Presentation

Capital Improvement Projects

Scheduled & In-Progress CIP Projects:

- EV Charging Stations – Construction Phase has Started at City Hall and Metrolink Station
- Sea Country Flooring Upgrade – Scheduled to be Completed by End of May 2022
- La Plata, Marina Hills, & Chapparosa Park Playground Replacement - Scheduled to be Completed by End of May 2022
- Sea Country ADA Improvements – Scheduled to be Completed August 2022
- Niguel Rd. (Highlands Ave. to Alta Terra) Resurfacing – Scheduled to be Completed August 2022





June 2022 Presentation

Capital Improvement Projects

CIP Projects in the Construction Phase:

- EV Charging Stations – Construction Phase is Soon to be Completed at City Hall and Metrolink Station
- Chapparosa Park Playground Replacement - Scheduled to be Completed by End of June 2022
- Sea Country ADA Improvements – Scheduled to be Completed August 2022
- Niguel Rd. (Highlands Ave. to Alta Terra) Resurfacing – Scheduled to be Completed August 2022





City's TV Channel – Digital Bulletin Board

Cox Cable Channel 853 and AT&T U-Verse Channel 99

Project Electric Vehicle Charging Stations (Phase I)

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This project included the installation of permanent electric vehicle (EV) charging stations at City Hall and the Metrolink Station. This project helps ensure the City has available electric vehicle charging stations at City facilities to support the increasing number of electric vehicles in the community.

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