

Role Description

Overview

Alameda County is 739 square miles and employs nearly 10,000 people, many of whom travel on the job. In 2003, our vehicle fleet accounted for 12% of the County's total operational emissions. To alleviate the environmental impact of County operations, GSA has procured 85 electric vehicles and 113 EV charging ports. The increased power demand and operations logistics of running an EV fleet has presented the County with a number of new challenges and opportunities.

My Role

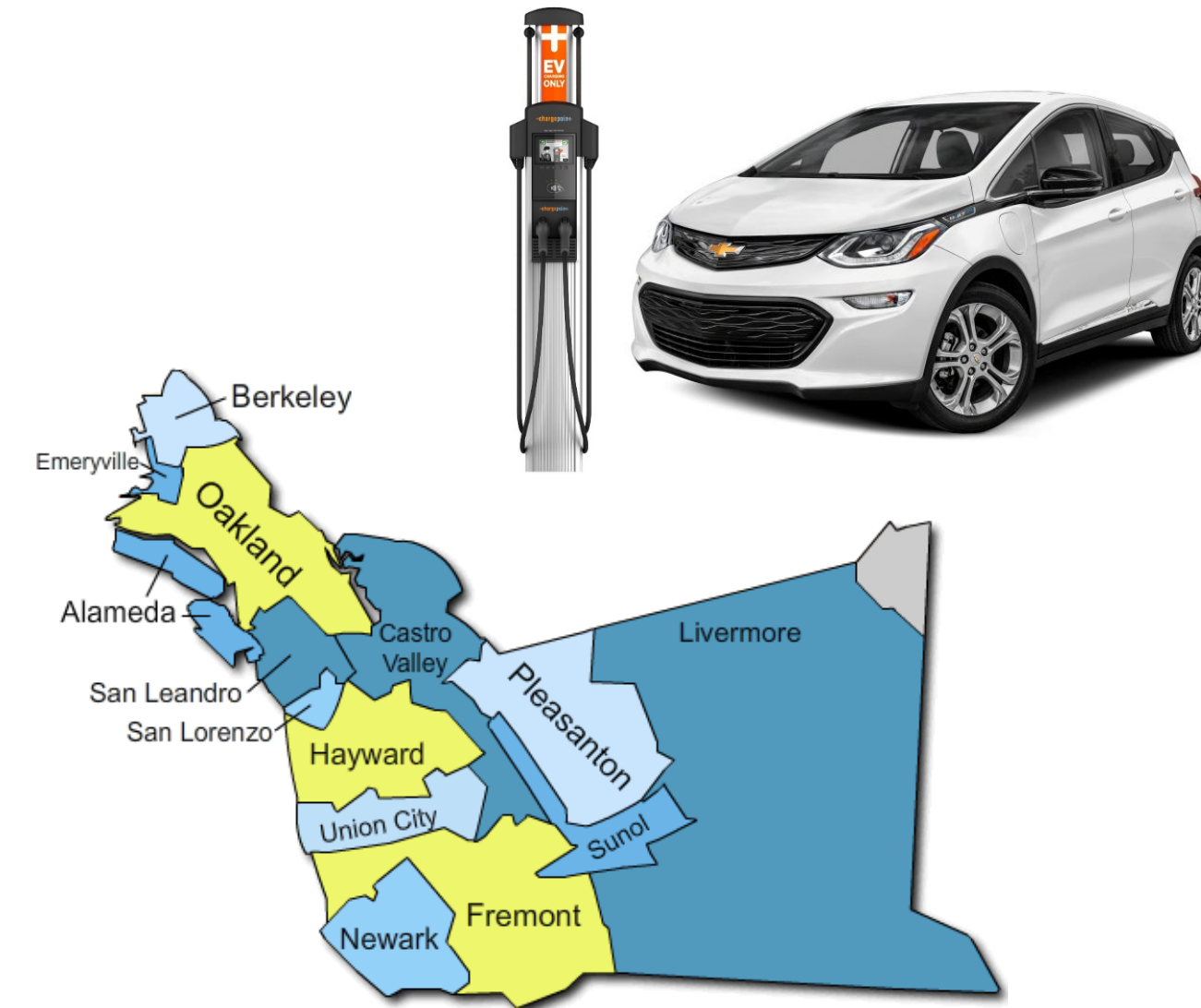
Data Analysis:

- Use our many platforms to track and analyze energy, GPS, and other data to increase efficacy of programs.



Outreach:

- Train employees on charging and using electric vehicles.
- Distribute a County-wide employee spotlight quarterly.



Planning:

- Assist with installation of 8 new EV charging stations in Dublin
- Create "commute-shed" maps in ArcGIS for a new vanpool program

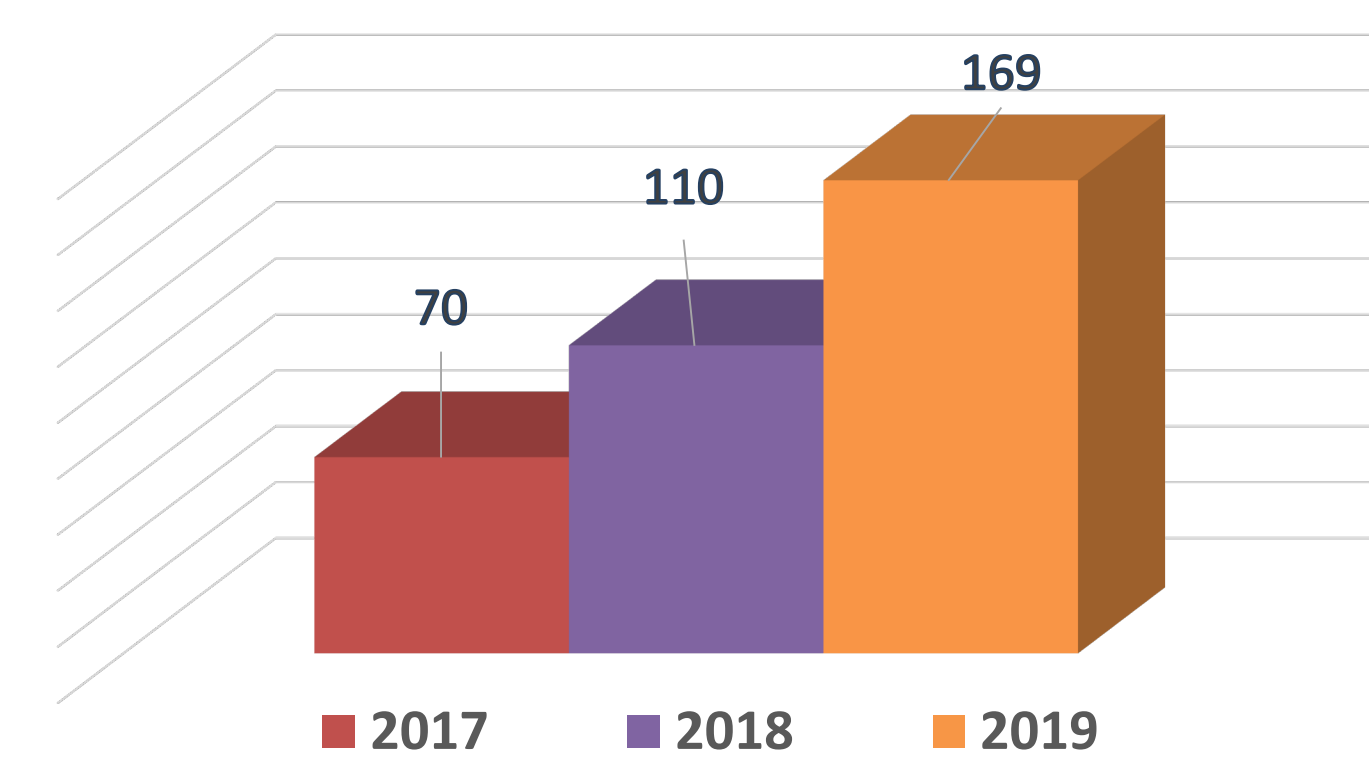


Grant Applications & Compliance:

- California Air Resources Board Low Carbon Fuel System
- BAAQMD "Ready, Set, Charge!" Program
- Clean Vehicle Rebate Program
- West Oakland Zero Emission Vehicle grant to fund new EVs

Outcomes

Carbon Deficits from EV Charging (MT)



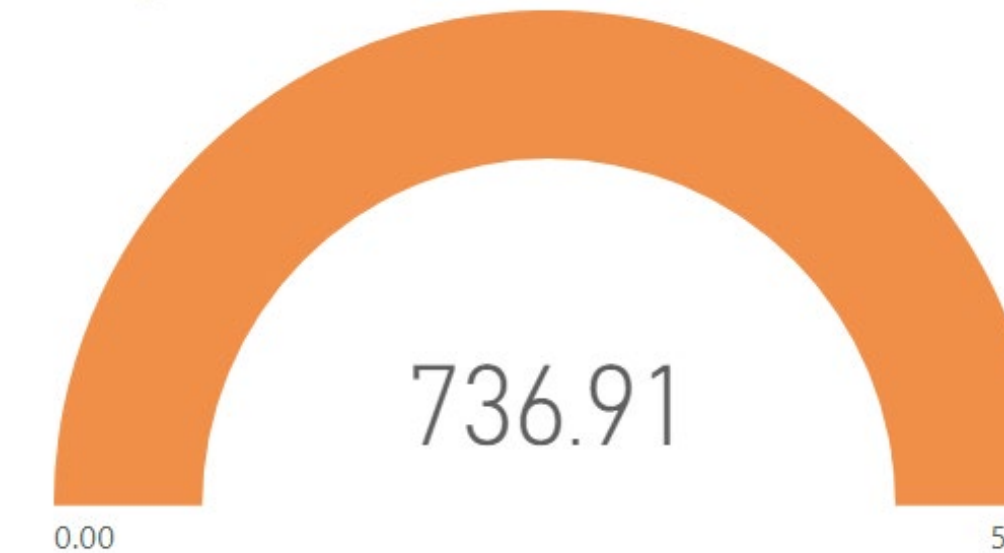
141% increase in yearly EV fuel from 2017



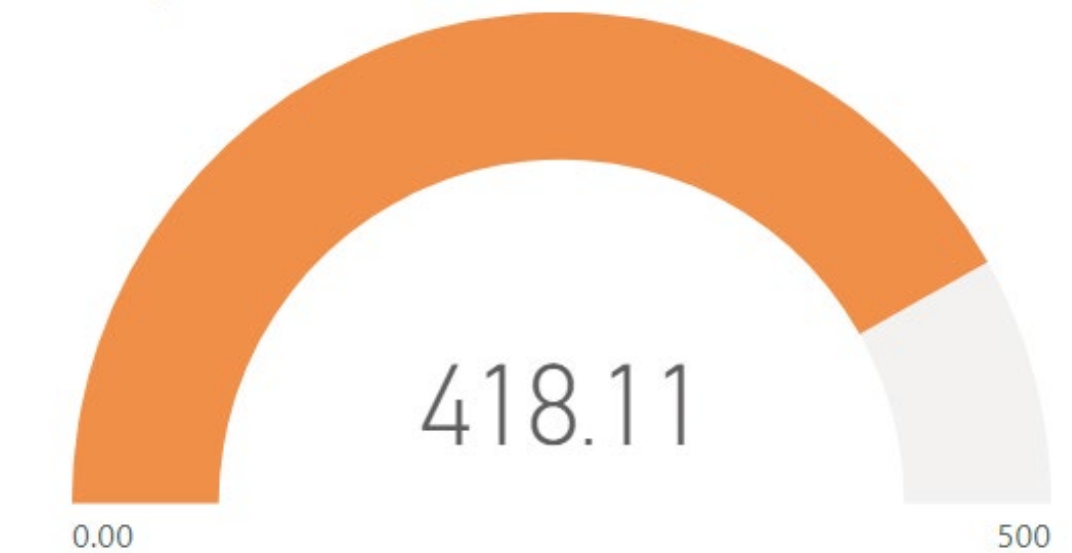
Over their lifetime, 8 new EV charging stations are projected to save over **1800 MTons** of CO₂ from entering the atmosphere.

Recommendations

Pool Vehicles Average # of Miles Driven/Month



Social Services Agency Average # of Miles Driven/Month



The County's policy requires that vehicles are driven an average of 500 miles/month. This analysis showed that pool vehicles are more utilized than department-specific vehicles. Most of our electric vehicles are also concentrated in the pool. If we expanded our pool vehicle fleet, we could save money by reducing fuel costs, more easily purchase zero-emission vehicles, and remove barriers to clean commuting for employees.

