

Reducing Fleet Emissions

Background

The County's next climate action plan (CAP) for government services and operations will aim to reduce the County's greenhouse gas emissions. The County fleet contributed about 13% of 2019 operational emissions. The County's fleet consists of 1350 vehicles, of which 78 are 100% electric vehicles (EVs). These EVs are light-duty passenger vehicles. Medium- and heavy-duty vehicles emit far more per vehicle than light-duty vehicles. That's why we are setting ambitious goals in the next CAP to transition to medium- and heavy-duty Zero Emission Vehicles (ZEVs).

My Projects

Medium Duty Electrification

- Initiated the transition to EVs for the 8 medium- and heavy-duty trucks used by our Property and Salvage division.
- Researched EV trucks and charging infrastructure, analyzed cost of ownership, and engaged stakeholders.



Next CAP Development

- Researched transportation actions in other county and city CAPs and relevant state/federal policies.
- Drafted targets and measures for the CAP's transportation section.



Recommendations

Electrification

- Transition Property and Salvage to EV's, which would annually save the County \$1.2 million and remove 100,000 pounds of CO₂ from our carbon footprint.



CAP

- Form a cross-agency sustainable transportation panel to support agencies to shift to EVs.
- Increase parking prices to fund public transportation incentives.
- Transition the County's shared-use vehicle fleet to 100% ZEVs by 2030.

Key Findings

Electrification

- Transitioning our property and salvage trucks to EVs would make Alameda County a leader in climate action, as the first major county in California to adopt heavy-duty EVs.

CAP

- While discussing EV's with County employees, I realized that not everyone is familiar with the science of climate change and how we can make a difference. It is critical to discuss the impacts of climate change with co-workers, friends, and family to inspire action in the fight for humanity.

