

Increasing EV Adoption in Public Fleets Serving Disadvantaged Communities

Electric Vehicle Suitability Assessment Results

California's Public Fleet Pilot Project

In 2015, the California Air Resources Board initiated the Public Fleet Pilot Project, offering increased electric vehicle (EV) incentives for public agencies in disadvantaged communities through the Clean Vehicle Rebate Project (CVRP).

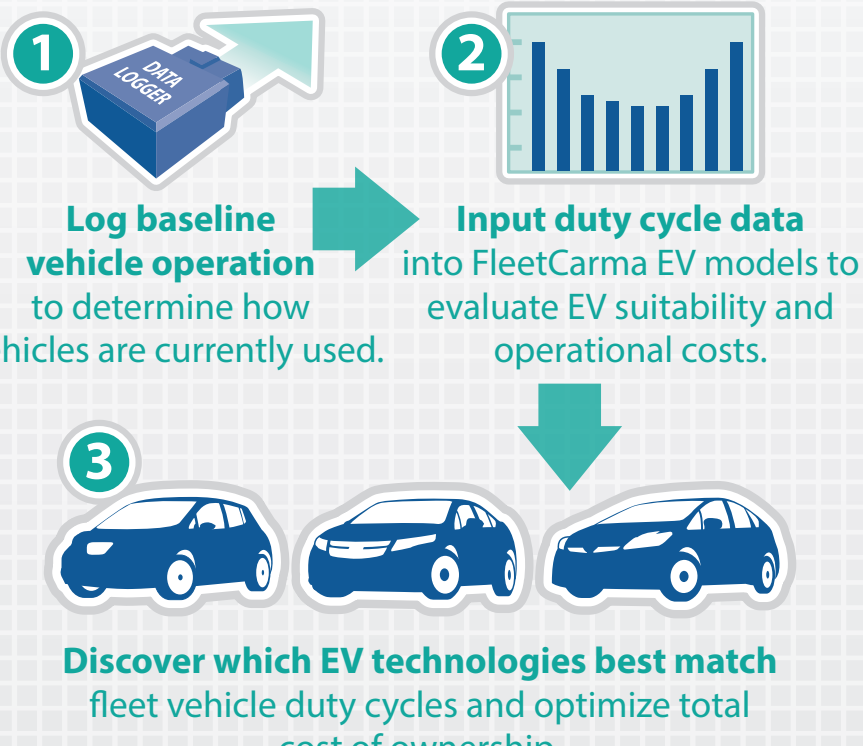
As CVRP administrator, the Center for Sustainable Energy (CSE) partnered with FleetCarma to evaluate the effectiveness of EV suitability assessments in assisting government fleets to acquire clean vehicles. Eight California agencies were selected for a complimentary analysis, and 85 vehicles were analyzed for EV replacement suitability. Such analyses are intended to bolster confidence and inform decision-making to help integrate EVs into specific fleet needs.

EV Suitability Assessment Participants



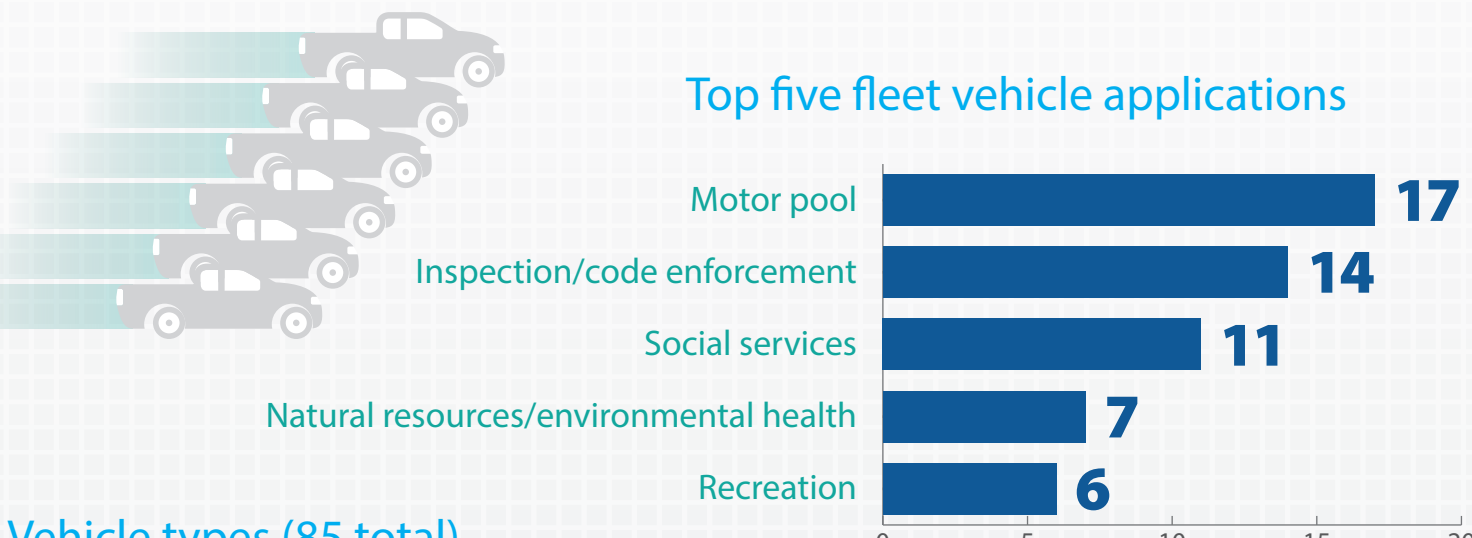
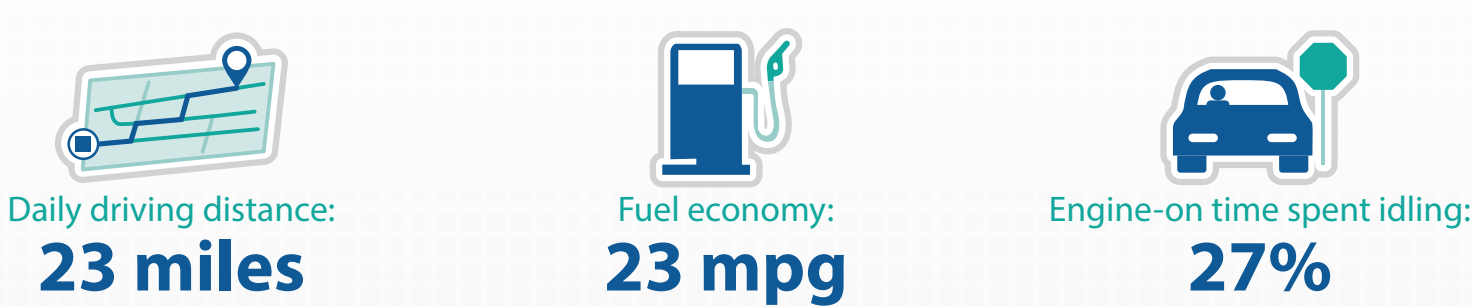
Assessment Process

Data loggers were installed to track current vehicle usage and provide a baseline for comparison with potential EV replacement models. The second-by-second data was then used to "drive" virtual EV simulation models. The results show the business case for EVs under individualized fleet conditions.

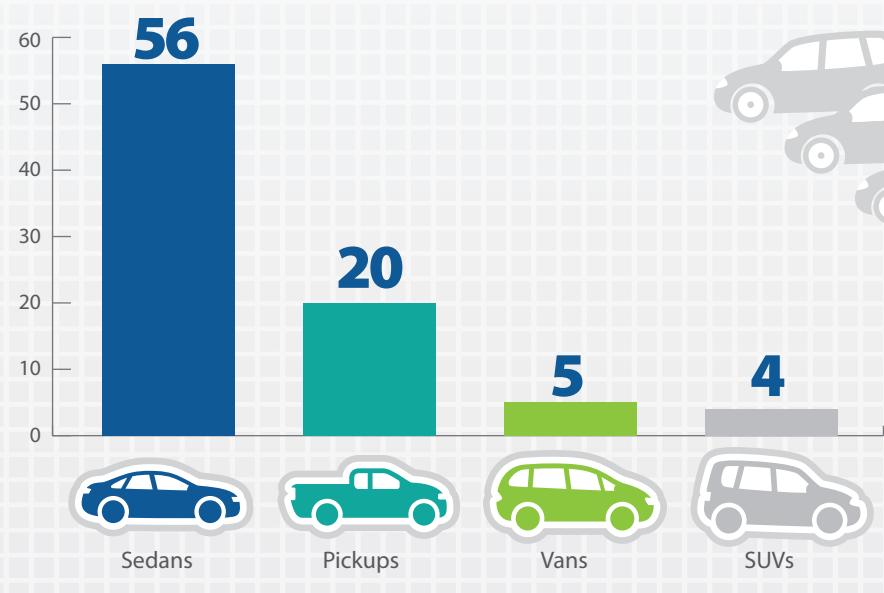


Existing Fleet Vehicles

Average baseline vehicle performance

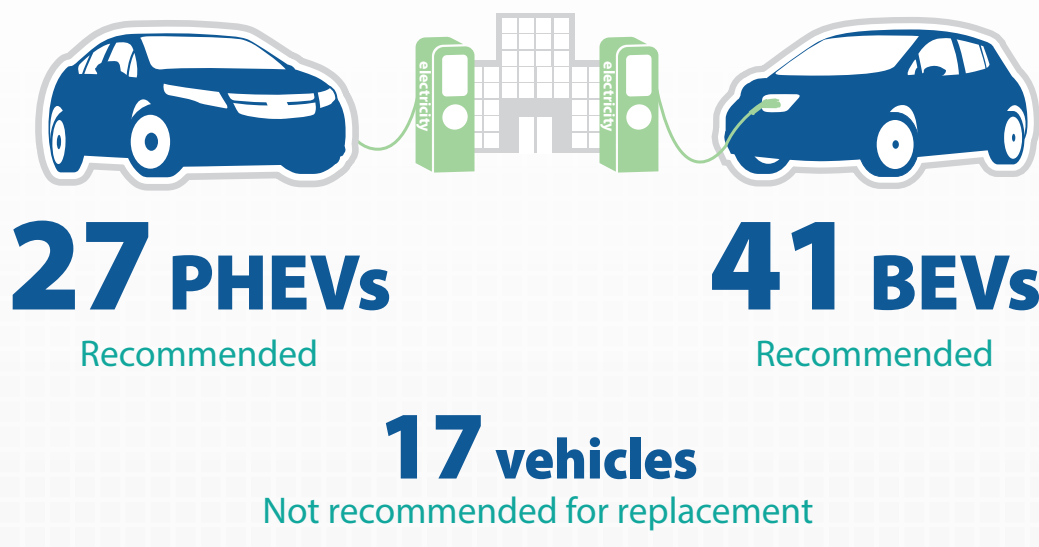


Vehicle types (85 total)

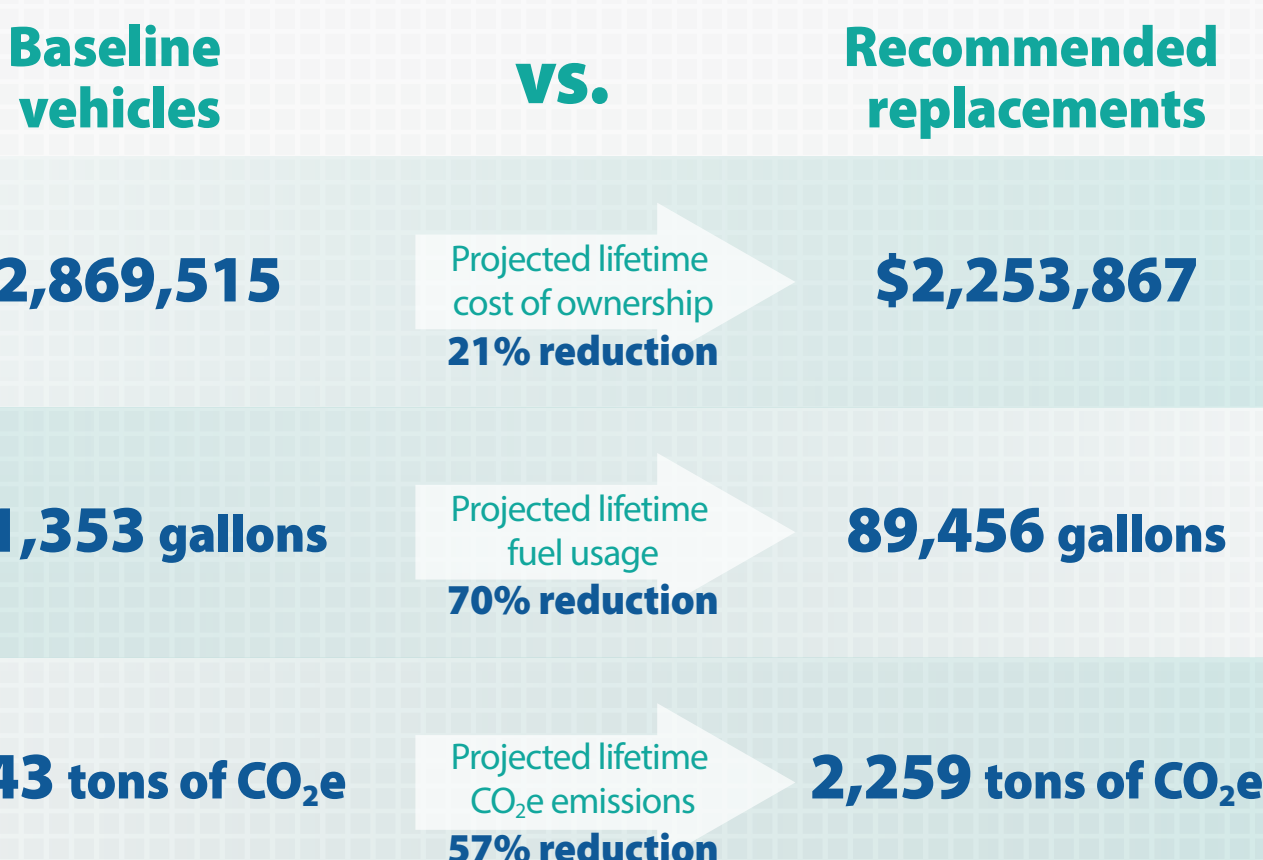


Modeling Results

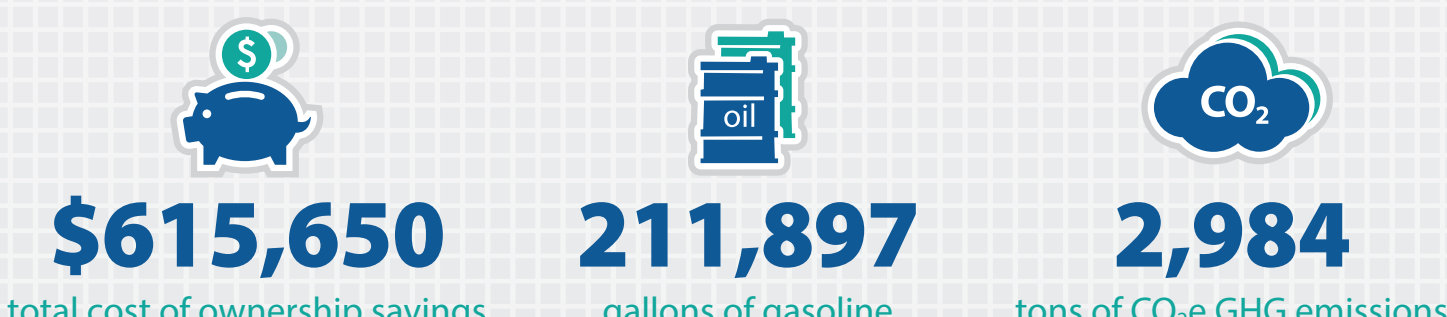
Replacement recommendations - 68 of 85



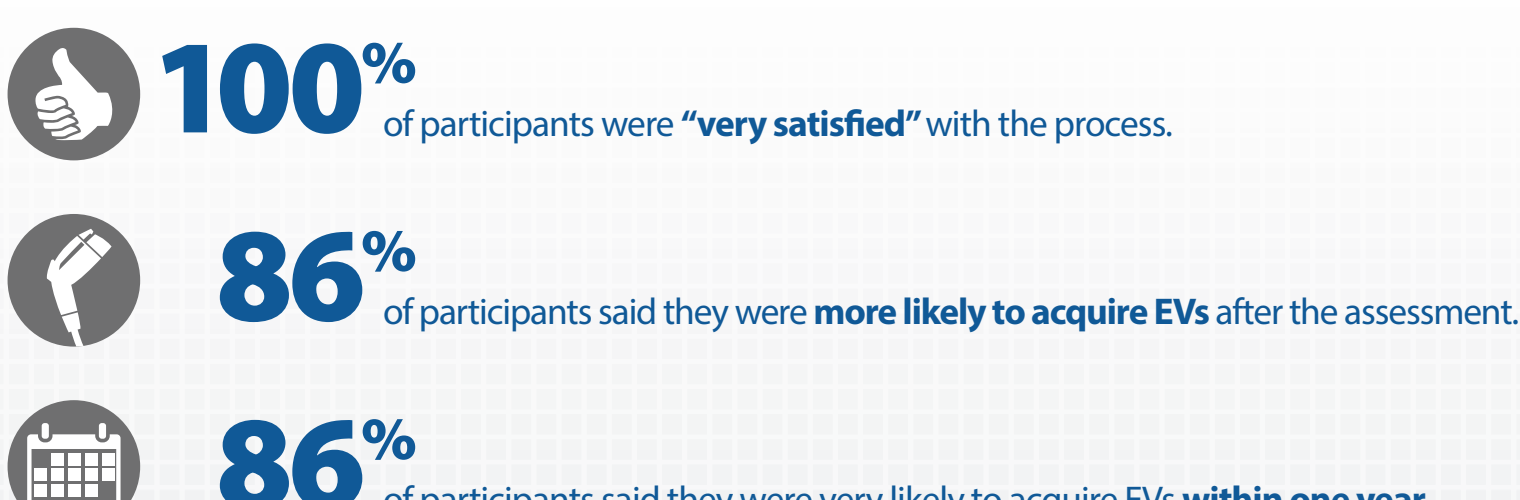
Baseline vehicles vs. recommended replacements performance



Total savings potential



Participant Feedback



"The information is extremely valuable for us to be able to make informed decisions regarding the placement of new EVs in our fleet."

- Doug Bond, Transportation Services Manager, Alameda County

