

Project Information Form

Project Title	Understanding the Distributional Impacts of Vehicle Policy: Who Buys New and Used Alternative Vehicles?
University	University of California, Davis
Principal Investigator	David Rapson Co-PI: Erich Muehlegger
PI Contact Information	Email: dsrapson@ucdavis.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	California Department of Transportation (Caltrans) - \$99,101.27
Total Project Cost	\$99,101.27
Agency ID or Contract Number	UCD-CT-TO-034.4 Caltrans 65A0527 Task Order 034.4
Start and End Dates	January 9, 2017 – December 31, 2017
Brief Description of Research Project	Understanding who is buying electric vehicles, how much they are being driven, and to what extent policies are benefiting low-income households is central to the sustainability of alternative vehicle policies. This research project explored the plug-in electric vehicle (PEV) market, including both Battery Electric Vehicles (BEVs) and Plug-in Hybrid Electric Vehicles (PHEVs), and the sociodemographic characteristics of purchasing households. The results confirm that low-income households exhibit a lower share of PEV purchases than they do for conventional, internal combustion engine (ICE) vehicles. This result raises questions about barriers to PEV adoption among low-income and minority ethnic populations. By comparing outcomes in the ICE, hybrid, and PEV markets across income and ethnic groups, the researchers tested whether price discrimination and barriers to market access are higher in PEV markets for low-income and minority ethnic groups. They found that, overall, they are not, although there are mixed results for the used PEV market.
Describe Implementation of Research Outcomes (or why not implemented) (Attach Any Photos)	
Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links <ul style="list-style-type: none"> • Reports • Project website 	http://ncst.ucdavis.edu/project/understanding-the-distributional-impacts-of-vehicle-policy-who-buys-new-and-used-alternative-vehicles/