



**Project Information Form**

Project Title	Truck Choice Modeling: Understanding California's Transition to Zero-Emission Vehicle Trucks Taking into Account Truck Technologies, Costs, and Fleet Decision Behavior
University	University of California, Davis
Principal Investigator	Lew Fulton
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Funding Source(s) and Amounts Provided (by each agency or organization)	California Department of Transportation (Caltrans) - \$85,418.48
Total Project Cost	\$85,418.48
Agency ID or Contract Number	UCD-CT-TO-033.2 Caltrans 65A0527 Task Order 033.2
Start and End Dates	November 21, 2016 through October 31, 2017
Brief Description of Research Project	<p>This project presents sustainable freight data and a truck purchase decision choice models to better understand how California's fleets will transition to low carbon technologies and fuels, especially zero-emission technologies such as electric and fuel cell trucks. Researchers developed data comparing vehicle/technology performance, vehicle capital and operating costs, mileage and performance requirements, and other important purchase decision factors for different types of trucks and fleets. The project also developed a discrete choice model for alternative fueled trucks to assess the impacts of various attributes on the purchase decisions of various types of fleets, and provides technology adoption scenarios.</p> <p>Researchers investigated critical factors that affect fleet purchase decisions, reasonable adoption rates for new technologies, and the effect of infrastructure deployment on purchases. Understanding these critical factors will enable the development of more realistic scenarios for a transition to low-carbon truck transportation in California and help identify relevant policies. It will assist the state's implementation of the statewide freight plan.</p>
Describe Implementation of Research Outcomes (or why not implemented) (Attach Any Photos)	



# National Center for Sustainable Transportation

Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links <ul style="list-style-type: none"><li>• Reports</li><li>• Project website</li></ul>	<a href="http://ncst.ucdavis.edu/project/truck-choice-modeling-understanding-californias-transition-to-zev-trucks-taking-into-account-truck-technologies-costs-and-fleet-decision-behavior/">http://ncst.ucdavis.edu/project/truck-choice-modeling-understanding-californias-transition-to-zev-trucks-taking-into-account-truck-technologies-costs-and-fleet-decision-behavior/</a>