

Project Information Form

Project Title:	Life Cycle Modeling of Technologies and Operational Strategies for a Sustainable Freight System in California
University:	University of California, Davis
Principal Investigator:	Alissa Kendall
PI Contact Information:	Phone: 530-752-5722 Email: amkendall@ucdavis.edu
Funding Source(s) and Amounts Provided (by each agency or organization):	USDOT - \$76,976.00
Total Project Cost:	\$76,976.00
Agency ID or Contract Number:	DOT 69A3551747114 UCD-DOT-409
Start and End Dates:	October 1, 2017 – September 30, 2018
Brief Description of Research Project:	<p>California's freight transportation system is a vital part of the state's economy, but generates a high portion of local pollution in parts of the state with poor air quality. In recognition of these challenges, Executive Order B-32-15 encourages adoption of advanced vehicle technologies and infrastructure, as well as the use of alternative energy and fuels in the freight sector. These measures are echoed in the state's Sustainable Freight Action Plan.</p> <p>Most emissions reductions from freight vehicle activities are expected to come from the deployment of new emissions control devices, efficiency improvements, and zero emissions vehicle technologies for on-road trucks. Where emissions occur, and how emissions of different pollutants are affected by factors including vocation, duty cycle, powertrain configuration, and fuel pathway, will influence the effectiveness and economic costs of emissions reduction strategies. This research will apply a life cycle perspective to assess the energy use, greenhouse gas emissions, air quality impacts, and costs of on-road freight vehicle technologies and operational strategies identified under the Sustainable Freight Action Plan. Findings will be synthesized and reported as abatement costs and will be a first step in building a supply curve for GHG mitigation from the freight sector.</p>
Describe Implementation of Research Outcomes (or why not implemented):	



National Center for Sustainable Transportation

Place any photos here	
Impacts/Benefits of Implementation (actual, not anticipated):	
Web Links <ul style="list-style-type: none">• Reports• Project website	https://ncst.ucdavis.edu/project/life-cycle-modeling-of-technologies-and-operational-strategies-for-a-sustainable-freight-system-in-california/