

Project Information Form

Project Title:	Investigating the Use of Electric Vehicles in New Mobility Services
University:	University of California, Davis
Principal Investigator:	Alan Jenn
PI Contact Information:	Email: ajenn@ucdavis.edu
Funding Source(s) and Amounts Provided (by each agency or organization):	U.S. Department of Transportation (USDOT) - \$40,772.74
Total Project Cost:	\$40,772.74
Agency ID or Contract Number:	DOT 69A3551747114 UCD-DOT-410
Start and End Dates:	October 1, 2017 – April 30, 2018
Brief Description of Research Project:	Integrating electric vehicles (EVs) into vehicle fleets deployed by transportation network companies (TNCs; e.g., Uber and Lyft) is a particularly promising way to realize the benefits of vehicle electrification, due to the greater average miles traveled and passenger occupancy of TNC fleets. In this report, the researcher examines EV use in TNC fleets from 2016 through 2018. They leverage novel datasets from TNCs as well as from charging service providers (e.g., Chargepoint and EVGo) to analyze charging and use patterns of EVs within TNC fleets. These insights allow the researcher to quantify the emissions benefits of EV use within TNC fleets, assess the capability of EVs to perform TNC services, and understand the effects of EV use within TNC fleets on the charging behavior of non-TNC EVs. Findings show that the emission benefits of electrifying a vehicle in a TNC fleet are nearly three times greater than the benefits from electrifying a privately-owned vehicle.
Describe Implementation of Research Outcomes (or why not implemented): Place any photos here	
Impacts/Benefits of Implementation (actual, not anticipated):	



National Center for Sustainable Transportation

Web Links

- Reports
- Project website

<https://ncst.ucdavis.edu/project/investigating-the-use-of-electric-vehicles-in-new-mobility-services/>

Jenn, A. (2019). Emissions Benefits of Electric Vehicles in Uber and Lyft Services. UC Davis: National Center for Sustainable Transportation.

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