

**Project Information Form**

Project Title	Advanced Energy Management Strategy Development for Plug-in Hybrid Electric Vehicles
University	UC Riverside
Principal Investigator	Guoyuan Wu
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Funding Source(s) and Amounts Provided (by each agency or organization)	DOT \$58,365
Total Project Cost	\$58,365
Agency ID or Contract Number	DTRT13-G-UTC29
Start and End Dates	April 1, 2014 – September 30, 2015
Brief Description of Research Project	Plug-in hybrid vehicles (PHEVs) have great potential in reducing energy consumption and pollutant emissions, due to the use of electric batteries as another energy source. One of the critical considerations in PHEV development is the design of its energy management strategy, which determines how energy flows in a hybrid powertrain should be managed in response to a variety of system parameters. We propose to develop a generic framework for real-time energy management for PHEVs using connected vehicle technology. Different energy management strategies will be developed, evaluated, analyzed, and compared to existing commercial strategies. It is expected that using transportation system information obtained through being connected will result in greater fuel efficiency and better performance.
Implementation of Research Outcomes (or why not implemented) (Attach Any Photos)	Pending final report Pending conference paper Pending journal article
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/ucr-dot-008">http://ncst.ucdavis.edu/project/ucr-dot-008</a>