



eTec News

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“U.S. Department of Energy awards \$8.294 million to Electric Transportation Applications (sister company to eTec) for its application entitled *“Advanced Vehicle Testing and Evaluation.”*”

The U.S. Department of Energy (USDOE), under the Funding Opportunity Announcement No. DE-FC07-00ID13859, entitled “Advanced Vehicle Testing and Evaluation,” awarded Electric Transportation Applications (ETA), a sister company eTec, a five-year contract valued at \$8.294 million. Including project participant cost share, the total approved budget is \$17.406 million.

ETA will be developing Baseline and Accelerated testing procedures and testing a variety of advanced vehicles that become available to the market. These could include electric on-road, neighborhood electric vehicles, hybrid electric vehicles, plug-in hybrid electric vehicles and hydrogen ICE vehicles.

Testing will be performed in and around Phoenix Arizona and utilizing Arizona auto manufacturers proving grounds and Argonne National Labs Advanced Power Train Test Facility outside of Chicago Illinois for Baseline Testing.

Baseline Performance Testing will utilize specifications developed by ETA in conjunction with vehicle manufacturers, and industry stakeholders (such as fleet managers), with the objective of measuring real-world vehicle performance. Data is collected including Fuel consumption, Acceleration, Gradeability, Road load coefficients (to support dynamometer testing), vehicle durability and charger performance (where applicable).

Accelerated Testing rapidly provides performance and reliability data for these advanced vehicles by using dedicated drivers to drive vehicles on fixed routes in and around Phoenix, Arizona. This allows the accumulation of fuel economy data for trips of diverse length. At a minimum, fuel consumption, maintenance requirements and operating anomalies are recorded for all trips.

Fleet testing is also conducted where vehicles are monitored as they operate in commercial and government vehicle fleets. Operating mission selection is carefully performed to maximize the benefits associated with the performance characteristics of each advanced vehicle type.

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