

**Item #9**  
**April 20, 2011**  
**Energy Commission Business Meeting**

**Electric Vehicles International (EVI)**

**Amendment #1 to Grant Agreement ARV-09-017  
for**

**Electric Vehicle Manufacturing**

**Summary**

Electric Vehicles International (EVI) has an agreement to design, develop, and deploy a clean, state-of-the-art range-extended EV power train technology for medium-duty trucks. This amendment adds \$1,416,314 to the original award of \$1,153,053 for a total grant award of \$2,569,367.00. These funds will supplement the existing Electric Vehicles International (EVI) agreement to design, develop, and deploy a range-extended electric vehicle for medium-duty truck applications.

**Benefit**

Increasing this award will provide EVI with necessary funding to go beyond two prototype vehicles and add eight production vehicles to the project. The production vehicles allow a more robust demonstration of the technology's viability in various applications.

Compared to its petroleum-fueled counterpart, each range-extended electric vehicle will use the equivalent of 1,750 gallons less of fuel and save an average \$8,000 on fuel purchases and maintenance annually, and release over 38,000 fewer pounds of CO<sub>2</sub> every year. This project will create new 40 green jobs in Stockton, California, one of the nation's hardest hit regions economically with an unemployment rate of over 16 percent. This project will also generate significant sales tax revenue for the state and city/county.

The current project uses Valence lithium-phosphate batteries for a range of 100-115 miles in all-electric mode. EVI will be integrating the new power train into an industry standard truck and will deploy prototypes for onsite testing with partners.

**Participants**

EVI will provide the lead vehicle development and production role for this project.

Light Engineering will provide their SmartTorq motor/generator.

Valence Technology will provide lithium-phosphate batteries to power the proposed vehicle.

Altec Industries will supply equipment and provide engineering support.

Pacific Gas & Electric (and potentially other utilities and agencies) will provide utility vehicles from their fleet to be retrofitted with the EV powertrain.

### **Implementation Schedule**

Project start date: 2/11/2011

Project end date: 11/1/2012