



## Opinions and suggestions regarding CEC Revised Draft 2014-2015 Investment Plan Update for the Alternative and Renewable Fuel and Vehicle Technology Program

Boulder Electric Vehicle CEO, Carter Brown was in attendance at the advisory committee meeting held by Commissioner Scott at UC Irvine on Feb 10, 2014

Our support and recommendations are as follows:

Under **Alternative Fuel Infrastructure > Electric Charging Infrastructure**, we would suggest that a particular amount of funding be set aside for fleets willing to install 10 or more EVSEs in a single depot, and that the funding not cover the EVSEs but the building infrastructure improvements needed to run larger electrical service to a particular facility. This would help tremendously when a delivery company wishes to deploy medium duty electric trucks such as Boulder Electric Vehicle and EVI both produce in the State of California. Often the delivery truck facility is located in a warehouse district and the electrical service to the area is drastically lower than the electrical service commonly available in a manufacturing zone and thus the cost can be very large to rip up streets and lay additional service needed to charge 10-100 all electric trucks. These trucks usually take a 60-100 amp breaker at 220 volts and charge for 6-8 hours so the load is significant. We appreciate and agree with the funding amount for this category of \$15M.

Under **Alternative Fuel and Advanced Technologies >Medium and Heavy Duty Advanced Vehicle Technology Demonstration**, we would suggest two demonstrations that would greatly advance the commercialization of the existing technologies. According to ARB less than 10 electric trucks in the medium duty weight range of 10,000 lbs-14,000 lbs are on the road in California. We would suggest a demonstration project of 50 such vehicles in one location. We would also suggest an electric school bus with vehicle to grid capabilities demonstration.



We would also suggest an Electric Semi demonstration with DC Fast Charging so that a vehicle could charge at the port, make a 35 mile trip and recharge in 1 hour or less. We think the funding amount to this category should be raised to \$20M.

Under **Related Needs and Opportunities > Manufacturing** we would suggest a double down approach to accelerate production in truck manufacturing facilities that produce trucks from the axles up located in the State of California. This will act as an economic multiplier as well as accelerate the speed of which a manufacturer can get great numbers of vehicles into the market place. We think the funding for this category is of \$5M should be increased to \$10M.

Under **Related Needs and Opportunities > Workforce Training**, we suggest that workforce training be related to on the job training in vehicle facilities located in the State of California. We also suggest that this training be open to service technicians as well as assembly line workers. We think OEMs should be allowed to use this category as it will accelerate service of specific vehicle types. Once again this will help as an economic multiplier. We think the funding in this category of \$2.5M is adequate.