



Real World Performance: Lead-Carbon Batteries and Real Demonstrations

The ALABC is drawing attention from some of the world's largest automotive engineers and manufacturers by demonstrating the capabilities of advanced lead-acid and lead-carbon batteries in several different hybrid vehicle concepts.

The LC SuperHybrid Project

Utilizes advanced lead-carbon batteries along with a belt-driven Integrated Starter Generator and an electric supercharger to increase battery charge and engine efficiency, lower carbon emissions and boost performance in 12V and 48V mild/micro hybrid vehicles.



The Natural Gas Hybrid Vehicle

Combines advanced lead-carbon batteries with a natural gas-powered engine and a factory-built start-stop system in a RAM truck to achieve lower emissions and reduced fuel costs, giving fleet owners a low-cost alternative to conventional trucks.

The ADEPT Project

Applies 48V "intelligent electrification" concepts using advanced lead batteries to deliver full hybrid equivalent fuel economy and performance with lower CO2 emissions at a significantly lower cost.



The Kia Optima T-Hybrid

Offers a 48V micro/mild-hybrid propulsion system featuring advanced lead-carbon batteries similar to the LC SuperHybrid concept and is the first of its kind to be demonstrated in collaboration with a major automaker.

The UltraBattery Civic

Demonstrated that lead-carbon UltraBatteries can out-perform Nickel Metal Hydride batteries in mild hybrids (with start-stop) by running for 160,000 miles in real-world courier duty at varying temperatures with no significant power loss.

