Electric Drive and Advanced Battery and Components Testbed (EDAB)

March 5th through June 24th 2012

Description / Specification

Vehicle
- **Configuration**: Series PHEV
- **Traction Motor**: UQM 145 kW / single-speed gearbox
- **APU**: UQM 145 kW / 5.3L gasoline engine

Battery Pack
- **Manufacturer**: EnerDel
- **Model**: Type I EV Pack (A306)
- **Chemistry**: Li-ion
- **Cathode**: Mixed Oxide (Modified NMC)
- **Anode**: Amorphous Hard Carbon
- **Configuration**: 4 parallel strings of 96 cells
- **Rated Capacity (Ah)**: 70
- **Nominal Voltage (V)**: 345
- **Pack mass (kg)**: 285
- **Cooling Type**: Passive (sealed enclosure)

ESS Reference Performance Testing Results
- **Initial Measured Capacity (BOL) (Ah)**: 63.2
- **Present Measured Capacity (Ah)**: 59.2

ESS On-road Testing Results
- **Miles driven**: 5,103.3
- **City % of miles**: 51%
- **Hwy % of miles**: 49%
- **Amp Hours throughput lifetime**: 9,645.8
- **Avg. energy consumption (DC Wh/mi)**: 235.7