

AutoPort inc.

One small step for AutoPort, one giant leap for V2G

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February 17, 2009 was an important date for the advancement of vehicle-to-grid (V2G) technology for electric transportation in America. It was the day AutoPort held an open house to officially announce that it had been licensed by AC Propulsion, Inc. to begin producing the eBox; an all-electric conversion of the Toyota Scion xB. Attendees included Delaware Governor Jack Markell, Delaware Economic Development Office Director Allen Lavin, New Castle County Executive Chris Coons, Senator John Kowalko and others.

About 50 people participated in the event. The Governor initiated a \$100,000 Blue Collar training grant paid through the Economic Development Office to aid AutoPort in training their employees to begin conversions of some 30 cars already 'on order' by various Customers. AutoPort is also completing details for several potential orders for 50-300 conversions.

AC Propulsion has converted about a dozen Scion xBs to the eBox over the last few years with Tom Hanks being one of the first, famous Customers. **The significance of this licensing arrangement between AutoPort and AC Propulsion is the new capacity to produce volumes of converted gas-powered**



cars to all-electric. AutoPort currently has a staff of about 100 employees, with 100 acres near and on the port of Wilmington (Delaware) to produce the conversion cars as they are ordered. AutoPort is a 27 year old conversion and export company that processed 190,000 cars in 2008 largely for export to Saudi Arabia. They do as little prep work as pin stripes and/or adding the white foam protection, to converting a GM pick-up truck to a sophisticated Homeland Security transport vehicles. Their three buildings cover about 80,000 square feet.

While the cost per conversion remains at the \$70,000 including the cost of the Scion xB, it is anticipated that the price will be lowered as larger volumes are produced. AutoPort, with their large and experienced conversion staff in place, is ramping up to build hundreds, and later thousands per year, of gas-to-electric conversions as demand dictates.

Dr. Willett Kempton, of the University of Delaware, the "father of V2G", has his team of graduate students putting the final touches on the software and a server that will aggregate up to 10,000 V2G-capable cars. An Aggregator coordinating the power of these EVs and selling ancillary services to the grid will net the car owners up to \$5,000 income per year.

BMW produced 500 all-electric Mini-Es (Mini Coopers) during 2008 for testing. Yulon of Taiwan is ramping up to also produce new, all-electric sedans. Hundreds of Tesla Roadsters are on the road and their new Model S is on the way. Each of these three manufacturers incorporates AC Propulsion's drive system with V2G technology. And, adding AutoPort's contribution on conversion cars, V2G will truly 'leap' forward during 2009.

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