

PHEV

How Soon and What Impact?

May 7, 2007

Roger Duncan, Austin Energy

Campaign Summary

- **Partners:** There are currently over 530 Partners in 41 states.
- **“Soft” Fleet Orders:** 8700 “soft” fleet orders have been received from 245 entities.

Who Is Supporting PHEV's

- **Minnesota:** First State to pass legislation in support of plug-ins 2006.
- **New York State:** \$10 million State program to convert State fleet to plug-in hybrids.
- **Washington State:** Developing a plan in support of plug-ins and other electrification efforts.

Support, Cont'd.

- **Iowa:** Iowa Dept. of Natural Resources sponsoring an event showcasing plug-in hybrids and other alternative fuel technology for transportation.
- **U.S. Conference of Mayors:** At annual meeting in June 2006, passed a resolution endorsing the Plug-in Partners Campaign and calling on automakers to build plug-in hybrids.

Support, Cont'd.

- **AutoNation:** The largest automotive retailer in the nation, CEO Mike Jackson said, “We believe Americans will buy these vehicles, which is why we want to sell them.”
- **Advanced Energy:** A Raleigh, N.C.-based non-profit corporation, organized a buyer’s consortium under which 19 plug-in school buses will be built.
- **Odyne Corporation:** Along with the Electric Power Research Institute (EPRI), is developing a plug-in hybrid passenger bus for the Long Island Power Authority (LIPA).

Federal Legislation

- **16 bills filed addressing PHEVs with broad bipartisan support**
- **Bills filed by local congressional delegation**
 - **Doggett: HR 1331- Consumer tax credits for new Plug-in Hybrids**
 - **Lamar Smith: HR 2079 - Funds PHEV research and development and provides funds for local government demonstration projects**

Federal Legislation, cont'd.

- **Key Provisions of Bills**
- **Consumer Tax Credits ranging from \$3,500 to \$15,500 based on battery size.**
- **Manufacturing Tax Credits, Grants, & Loan Guarantees**
- **Battery Research and Development Funding**
- **Funding for Local and State Demonstration Projects**

Executive Order

In a late January executive order President Bush ordered all agencies to purchase plug-in hybrids when they are “commercially available” at a cost “reasonably comparable” to conventional vehicles.

What Automakers are Doing



GM's Saturn VUE

GM announced at the November 2006 L.A. Auto Show that it will produce a plug-in version of its Saturn VUE.



GM's Chevy Volt

Unveiled concept car at the January Detroit Auto Show, the Chevy Volt would range 40 all electric miles, then a three cylinder gasoline engine recharges the electric battery.



Ford Airstream

Unveiled as a concept vehicle at the Detroit Auto Show in January, the Ford Airstream uses a small hydrogen fuel cell to recharge the battery.



Volvo C30

The Volvo C30 will be similar to GM's E-flex platform for the Volt and will have a small diesel engine to recharge the battery.



Dodge Sprinter Van

- Lithium-ion battery
- 20 mile all-electric range
- More than 20 to be placed in the United States with some already in operation.



Odyne Plug-in Hybrid Bus

Developing a PHEV passenger bus for the Long Island Power Authority (LIPA), under an initiative with the Electric Power Research Institute (EPRI).



Plug-in Hybrid School Buses

Advanced Energy, of North Carolina, put together a consortium of 19 school districts in 11 States, who issued a RFP for 19 prototype plug-in hybrid school buses.



Conversion Vehicles

- UC Davis doing conversions to show that the technology works
- Three companies are currently doing conversions, mostly for fleets
- Many entities are looking at converting vehicles



What's Next?