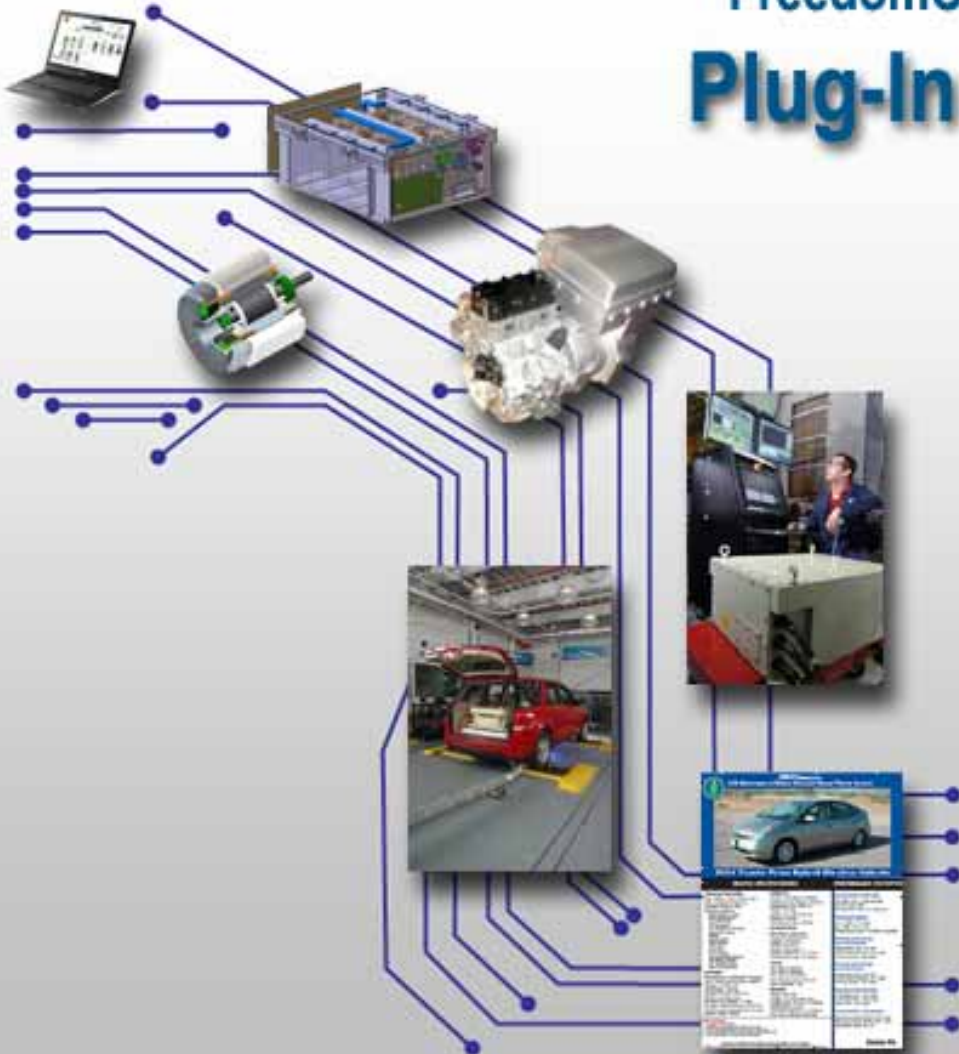




U.S. Department of Energy
**Energy Efficiency
and Renewable Energy**

Bringing you a prosperous future where energy
is clean, abundant, reliable, and affordable

FreedomCAR and Vehicle Technologies Program Plug-In Hybrid Electric Vehicle Demonstration



Lee Slezak
US Department of Energy
PHEV Stakeholders Meeting
June 13, 2007





Topics

- Background
- Issues
- Options
- Schedule



- PHEV supporters have expressed interest in demonstration programs for market/supplier development and consumer education
- Automotive industry has expressed interest in technology development and incentives
- Past experience indicates that timing and technology readiness are important factors in the success of a demonstration program



- Budget authorization
- Availability, reliability and capability of PHEV components
- Manufacturer participation



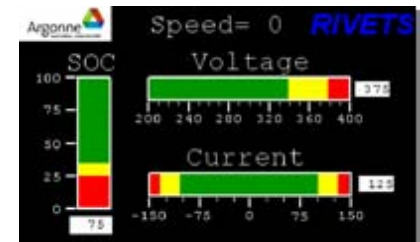
- **Current budget request**
 - Continue ‘leveraging’ approach
- **Moderate supplement**
 - Add ‘psuedo PHEVs’
- **Full funding**
 - Deploy PHEV fleet developed by OEMs



- **Continue Leveraging Approach**
 - Vehicles from other programs
 - Logistics and coordination of data gathering and management
 - Data analysis and dissemination



- ‘Pseudo’ PHEVs using real-time data acquisition and in-vehicle emulation
 - Utilizes dynamic vehicle data combined with live model of virtual powertrains (HEV, PHEV, E85, etc.)
- Potential to determine consumer use patterns and potential petroleum displacement vs. vehicle type and characteristics
- Potential low-cost standard data acquisition and analysis



Argonne RIVETS
Speed=0

Engine Speed	0	Eng Oil Pres Lu	0
Accel Exp Pos	0	Engine MIL	0
Accel Act Pos	0	Brake Switch	0
Thrtle Pos	0	Eng Serv Soon	0
Thrtle Cmd Pos	0	Trns Lamp Home	0
Engine Trq	-200	Trns MIL Emg	0
Engine Trq Max	-200	Trns MIL	0
Engine Trq Min	-300	Trns Act Gear	0
Eng Trq Sdc St	0	Trns Cmd Gear	0
Cruise Control	0	Trns Oil Temp	-40
Eng Lamp Home	0	Trq Cnv Mode	0
Generator Fail	0	Gen Rel Pos	0
A/C Clutch	0	Fl Wheel Spd	0
Eng Metal Trnc	0	FR Wheel Spd	0
Engine Warm	0	RL Wheel Spd	0
Engine Running	0	RS Wheel Spd	0



- **Deploy a PHEV fleet developed by auto manufacturers**
 - Notice of Intent issued by NETL
 - Teams including manufacturers, utilities, battery and electric component suppliers, etc.
 - PHEVs geographically dispersed
 - Up to \$20M per year for 5 years





'Full-Funding' Schedule

