



Preparing for a Plug-In Vehicle Future

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In partnership with:
SAE International

Plug-in Partners Campaign

- ✓ **Purpose:** Demonstrate a national market for flexible-fuel plug-in hybrid electric vehicles
- ✓ **Coalition:** Local and state governments, utilities, businesses and non-profit organizations
- ✓ **Actions:** “Soft” fleet orders, endorsements, rebates and incentives, petitions and letters
- ✓ **Kickoff:** January 24, 2006
National Press Club
Washington, DC



PIP Campaign Issues

1. Coordination/Education
2. Legislative & Policy Focus
3. Demo Vehicle Placement
4. Fleet Deployment/Incentives
5. Infrastructure Development/Research
6. Electric Grid Capacity



National Distribution of Pre-Production Purchase

- North Carolina (2)
- South Carolina (2)
- Florida (2)
- Pennsylvania (1)
- New York (2)
- Arkansas (1)
- Iowa (4)
- Washington (2)
- California (3)
- Texas (1-2)



1. Coordination/ Education

- **Establish a PHEV consortium**
 - ✓ **Utilities, Battery Manufacturers, Consumer Groups, Auto Manufacturers**
 - ✓ **Coordinate with government agencies**



2. Legislative & Policy Focus

- Local jurisdiction building code modifications, standard charging station design and installation protocols
- State initiatives such as sales tax exemptions
- Utility “green rates”; incentives for early adopters; point of sale vouchers for garage charging upgrades



3. Demo Vehicle Placement – What are OEMs Doing with Specialty Vehicles?



Odyne Refuse Truck



**Eaton/Ford/EPRI F-550 Super
Duty Trouble Truck**



**Daimler-Chrysler Dodge Sprinter
Cargo Van**



**Advanced Energy/
International School Bus**

4. Fleet Deployment/Incentives

- **Partners:** There are currently 508 Partners in 41 states
- **“Soft” Fleet Orders:** 11,506 “soft” fleet orders have been received from 371 entities
- **Additional policy incentives to stimulate demand and supply “national initiative”**

NEW ADMINISTRATION GOALS

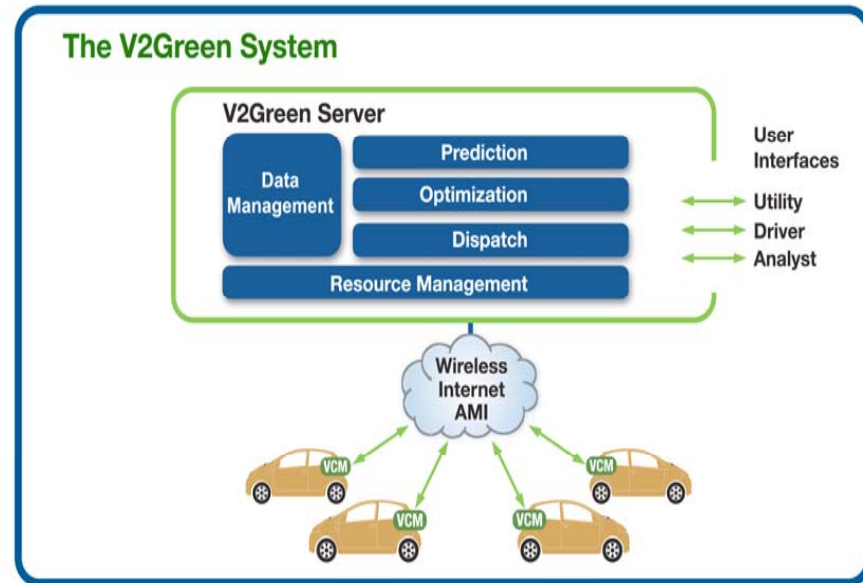
- ✓ **Put 1 million Plug-In Hybrid cars on the road by 2015**
- ✓ **Within one year of becoming President, the entire White House fleet will be converted to plug ins as security permits**
- ✓ **Half of all cars purchased by the federal Government will be plug in hybrids or all electric by 2012**

5. Infrastructure Development/Research



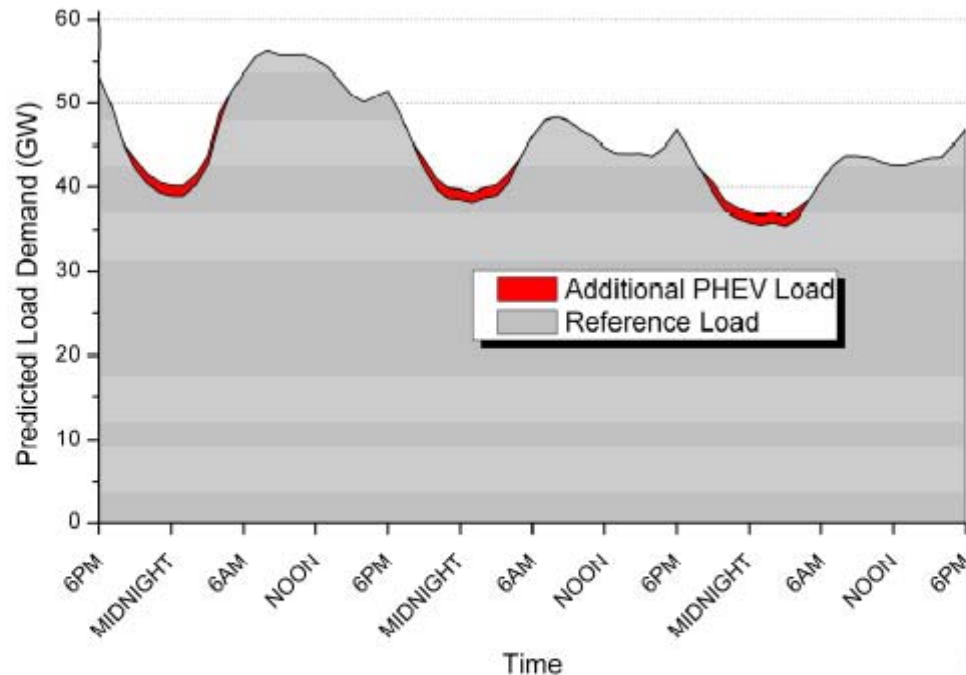
- ✓ Charging station and consumer preference testing
- ✓ Determine infrastructure needs for PHEV and/or load balancing
- ✓ Smart grid / chip development implementation

5. Infrastructure Development/Research



✓ AE research with V2Green on Smart Charging

6. US Power Grid Capacity



Model: IPM

- Additional load from PHEVs is small
 - PHEVs could be charged mostly via base-load filling during evenings and nights, when electricity costs are low
- ✓ **US Power Grid has more than adequate off-peak capacity for PHEV needs**
- ✓ **AE will get wind energy from west Texas to fuel PHEVs**