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 R&D Plan

Rogelio Sullivan US Department of Energy PHEV Stakeholders Meeting June 13, 2007





Topics

- PHEV Challenge and Response
- Program Structure
- Technical Resources
- Schedule and Milestones



- DOE PHEV R&D plan was developed with input from a variety of stakeholders then posted on DOE website for comments in March 2007
- In April, FCVT received almost 30 comments from individuals, organizations, and companies
- Each of these comments were addressed and a working draft of the PHEV R&D Plan has been posted June
- FCVT welcomes continued input and feedback.



Technology Assessment and Planning

Planning

Plug-In Hybrid Electric Vehicle

R&D Plan

Hybrid vehicle with 40 mi electric range to substantially displace petroleum in urban driving



- Lithium-ion batteries
- PHEV conversions
- Standard procedures

Analysis



- Various configurations, electric ranges and control strategies
 - Component requirements
 - National benefits and impacts

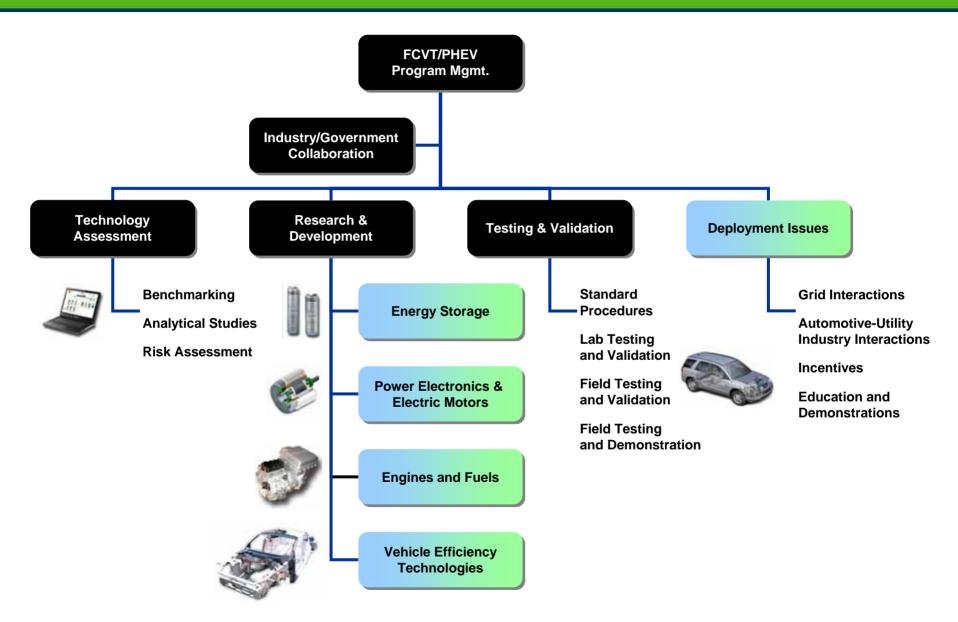
Solicitations

Power electronics, electric motors and batteries

- Analysis
- Development
- System Integration
- Testing & Validation
- Commercialization



Program Structure

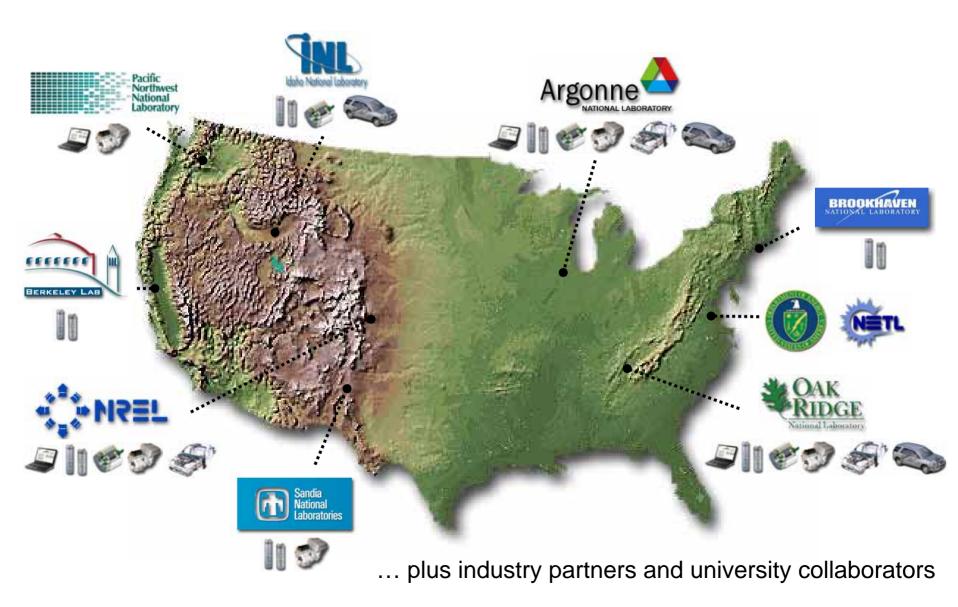




U.S. Department of Energy Energy Efficiency and Renewable Energy

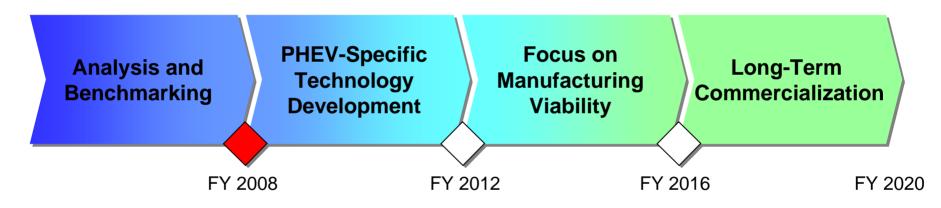
Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable

Resources





Refine Program Goals & Development Targets

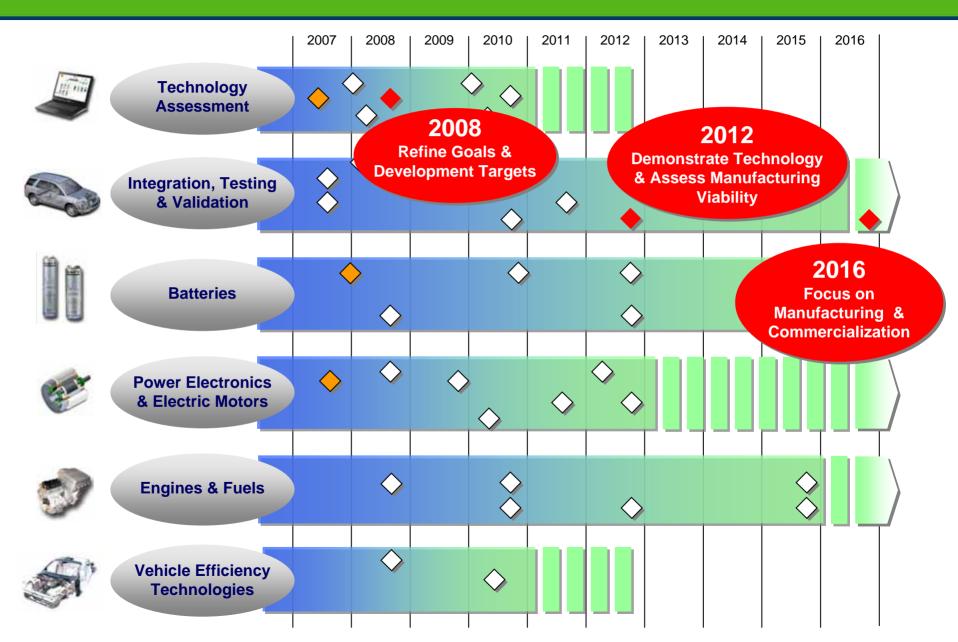


- Assess Component Development Progress in the Technology R&D Subprograms
- Refine Mid- and Long-Term Program Goals and Component Development Targets Based on the Results of the Analysis and Benchmark Testing
- Define Mid-Term System (Vehicle) Demonstration Goals

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

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

Schedule and Milestones





Plan available for download:

www1.eere.energy.gov/vehiclesandfuels/

Contacts:

Rogelio.Sullivan@hq.doe.gov Lee.Slezak@ee.doe.gov khardy@anl.gov

