Plug-In Hybrids: Organizations/Resources/Summary of OEM Plans

We've prepared this list to promote cooperation and cross-communication, and will work to make an expanded version available online at a private (unlinked) page at http://www.calcars.org/phev-contacts.html with contact emails/names for each organization. For omissions and corrections, or to be listed as a contact person, please write to nfo@calcars.org. This list with URLs is at http://www.calcars.org/partners.html. December 1, 2007

Policy/research/advocacy organizations
Advanced Vehicle Initiative Consortium of North Central Washington State
Alliance to Save Energy
American Auto Association of N. CA
Americans for Energy Independence
Bluewater Network/Friends of the Earth
California Cars Initiative (CalCars.org)
Center for a New American Dream
Center for Energy & Climate Solutions
Climate Solutions
Don't Be Fueled
Electric Auto Association
Electric Drive Transportation Association
Energy Independence Now
Environmental Entrepreneurs
Freedom From Oil
Global Exchange
IEEE
Institute for Analysis of Global Security
Natural Resources Defense Council
OurPower
PHEV Coalition of the Carolinas
PHEV Development Consortium
PHEV School Bus Project
PHEV Research Center at UC Davis
Plug In America
Plug-In Bay Area
Plug-In Partners
Rainforest Action Network
RechargeIT of Google.org
Renewable and Appropriate Energy Laboratory at UC Berkeley
Securing America's Future Energy
Set America Free
Silicon Valley Leadership Group
Smart Transportation
Vote Solar Initiative
V2G Research at Univ of Delaware
Weststart-CALSTART

Technology integrators
AC Propulsion San Dimas, CA
Aerovironment Monrovia, CA
Alten Energy Solutions Vancouver, British Columbia, Canada
Amberjac Projects Grantham Lincolnshire, UK
Clean-Tech Los Angeles, CA
DIY-MPG San Francisco, CA
EDrive Systems LLC Irvine, CA
Efficient Drivetrains Davis, CA
EnergyCS Monrovia, CA
Green Car Company Seattle, WA
Hybrid Center at the University of California-Davis (Prof. Andy Frank)
Hybrid Electric Vehicle Technologies Chicago, IL

Government
Argonne National Lab
Bay Area Air Quality Management District
California Air Resources Board
California Energy Commission
Idaho National Lab
National Renewable Energy Lab
Pacific Northwest National Lab
South Coast Air Quality Management District

Online publications and blogs
Autoblog Green
CalCars-News Archive
Climate Progress (by Dr. Joseph Romm)
Edmunds Green Car Advisor
EWorld
GM Fastlane
Green Car Congress
GreenCar
GreenTechMedia
HybridCars.com
Plug and Cars (by Marc Geller)
Power, Plugs & People (by Felix Kramer)
Toyota Open Road
Treehugger
Wikipedia
World Changing/Sustainability Sundays

Online hybrid discussion groups
EAA-PHEV Conversion Group successor to PRIUS+ PHEV Conversion Group
Greenhybrid.com
PriusChat
Yahoo Groups including Gridable Hybrids, Prius-2G, Prius Technical Stuff, Hybrid Ford Escape

Selected Publications (more at the CalCars Books, Downloads and Resources pages)
HEV Working Group, Comparing the Benefits and Impacts of Hybrid Electric Vehicle Options, EPRI Report #1000349 July 2001
HEV Working Group, Comparing the Benefits and Impacts of HEV Options for Compact Sedans and Sport Utility Vehicles, EPRI Report #1006892 July 2002
LA Times Magazine, "Running on Empty" by Dan Neil July 2005
EPRI Journal, "Fuels for the Future" Fall 2005
Plug-In Partners, Campaign Flyer February 2006

(OVER)
### PHEV Plans of Original Equipment Manufacturers & Startup Companies

See updates and statements by manufacturers in media reports [What Carmakers say about PHEVs](#).

<table>
<thead>
<tr>
<th>Automaker</th>
<th>Description and summary of official statements</th>
<th>Status of production</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Audi</strong></td>
<td>Volkswagen-owned company exploring PHEVs</td>
<td>Metroproject Quattro Sub-Compact concept PHEV October 2007</td>
</tr>
<tr>
<td><strong>Aptera</strong></td>
<td>Futuristic lightweight $30,000 3-wheel vehicles in development</td>
<td>Taking deposits on hybrid version to follow electric version in 2009</td>
</tr>
<tr>
<td><strong>BYD</strong></td>
<td>BYD Automobile Company, Shenzhen, China</td>
<td>Plan F6DM PHEV for sale in China in late 2008</td>
</tr>
<tr>
<td><strong>Chrysler</strong></td>
<td>Chrysler launching electric vehicle division.</td>
<td>Renegade/Zeo/Eco-Voyager concept cars</td>
</tr>
<tr>
<td><strong>Daimler</strong></td>
<td>Joint Daimler/Chrysler program managed by Daimler after separation of companies.</td>
<td>Several dozen PHEV prototypes on 15-passenger Sprinter van since 2004 (nickel-metal and lithium); no production commitment</td>
</tr>
<tr>
<td><strong>Fisker</strong></td>
<td>Partner with Quantum Technologies for $80,000 PHEV</td>
<td>Taking deposits for small production runs in 2009 and 2010.</td>
</tr>
<tr>
<td><strong>Ford</strong></td>
<td>Five to 10 years away. Small long-term evaluation program, including modeling of vehicle-to-grid benefits and economics, with Southern California Edison. Batteries not ready.</td>
<td>First Escape PHEV delivered to SCE Nov 2007. Several after-market companies have done PHEV conversions of the Ford Escape</td>
</tr>
<tr>
<td><strong>General Motors</strong></td>
<td>Saturn Vue PHEV and Chevy Volt series PHEV, which it calls 'extended range electric vehicle' (EREV), part of 'E-Flex' multi-fuel platform. Intends to be first. For Volt, insists on high 40-mile electric-only range /lifetime battery/affordability criteria.</td>
<td>Aims to get Saturn Vue on road in 2009; no production goal. Aims for 30-60,000 Volts in first year with Nov 2010 goal to begin production. Now bench-testing first prototype battery packs.</td>
</tr>
<tr>
<td><strong>Honda</strong></td>
<td>Sees PHEVs as having &quot;unnecessary fuel engine and fuel tank; promises all-electrics &quot;assuming we can come up with a really high-performing battery that we are working on currently.&quot; Doubts PHEVs have environmental benefits.</td>
<td>No known plug-ins being planned or on the road</td>
</tr>
<tr>
<td><strong>Nissan</strong></td>
<td>Adding PHEVs to &quot;development program,&quot; but says it intends to build all-electrics not PHEVs.</td>
<td>No known plug-ins being planned or on the road</td>
</tr>
<tr>
<td><strong>Rocky Mountain Institute</strong></td>
<td>Nonprofit group aims to spin off commercial venture to build lightweight PHEVs, successor to late 1990s &quot;Hypercar&quot; concept</td>
<td>No schedule announced</td>
</tr>
<tr>
<td><strong>Toyota</strong></td>
<td>Agrees on environmental and economic benefits; says batteries need further development before a commitment to mass-production. Acknowledges race to be first but says it won't compete -- wants to be best.</td>
<td>Plug-in HV Prius Pilot program in Japan, U.S. and Europe, starts with 10+ vehicles for road-testing, including about 6 in US. Several aftermarket companies and organizations have converted about 150 Priuses.</td>
</tr>
<tr>
<td><strong>Volkswagen</strong></td>
<td>3-wheel vehicle in development</td>
<td>No schedule announced</td>
</tr>
<tr>
<td><strong>Visionary Vehicles</strong></td>
<td>Team w/Malcolm Bricklin (who brought the Subaru and the Yugo to America) is 'starting to build the prototype.'</td>
<td>Plans to bring a series PHEV to market in 2010</td>
</tr>
<tr>
<td><strong>Volvo</strong></td>
<td>Lead engineer wants release from requirement to build hydrogen fuel cell vehicles</td>
<td>Space Up! Blue Concept PHEV Van with diesel or hydrogen fuel cells and rooftop photovoltaic</td>
</tr>
<tr>
<td></td>
<td>Ford-owned company exploring PHEVs</td>
<td>&quot;ReCharge&quot; flex-fuel series 60-mile conceptPHEV w/ wheel motors</td>
</tr>
</tbody>
</table>

(OVER)