PHEVs: Successful Commercialization ASAP

Popular Science

September 4, 2008 Cascadia: Beyond Oil Felix Kramer, Founder The California Cars Initiative info@calcars.org

PDF of latest presentation always at www.calcars.org/downloads





Electricity isn't just different—it's better than gas



1. ECONOMICS: <u>CHEAPER</u> -electric miles at a quarter the cost



CalCars

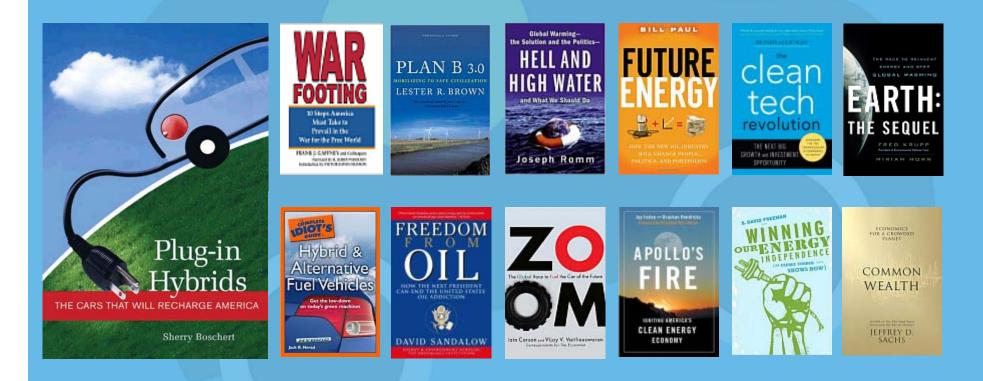
2. CLIMATE: <u>CLEANER</u> --50% less CO2, even on our half-coal national power grid

> 3. ENERGY SECURITY: DOMESTIC --Only 1.5% of electricity comes from oil in US

THE CALIFORNIA CARS INITIATIVE

PHEVs: Successful Commercialization

2005-2008: 13 books with major focus on PHEVs

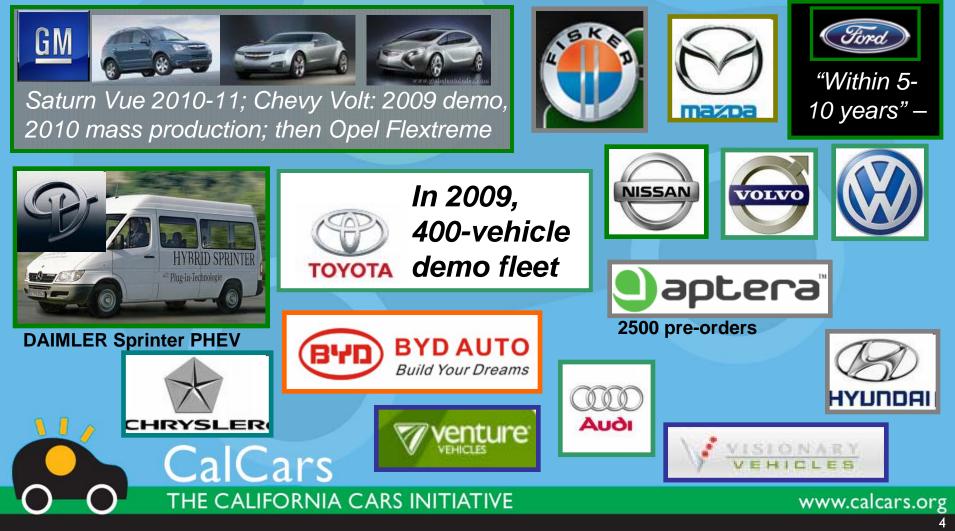


CalCars

THE CALIFORNIA CARS INITIATIVE

Order at www.calcars.org/books.html

15+ carmakers interested; race to be first; few timetables (CalCars "Carmakers" page tracks statements)



PHEVs: Successful Commercialization

What's taking so long? The wait for Version 1.0





Toyota: maybe 2010 – why not in 2009?



Chevy Volt : production in 2010 -now says 2009 demo fleets.

Without "The Brick" for \$3,995, would we have the Razr & iPhone?

Today's \$1,000 plasma TVs started at \$10,000.

A dozen other automakers: PHEVs a good idea – someday.



Presidential Candidates in Race on PHEV Policies

Obama'08

ELEC

EXTENDED RA

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What if carmakers heard NOW that in early 2009 they'll get:

- Federal fleet order
- \$8K/PHEV 1st million
- \$4K/PHEV 2nd million
- Federal battery guarantee

-- Plan from book/roadmap "Freedom from Oil" by David Sandalow Brookings Institution



July '08 Warren, MI GM plant

Conversions to electrify world's 900+ million cars



Chicago: F-150 PHEV, then ...transit buses etc. hevt.com

CalCars



8 million US RVs now plug in a little



Partial power for sedans poulsen.com





Supplementary drivetrains



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