

EV Everywhere Framing Workshop



U.S. DEPARTMENT OF
ENERGY



David Sandalow

Under Secretary of Energy (Acting)

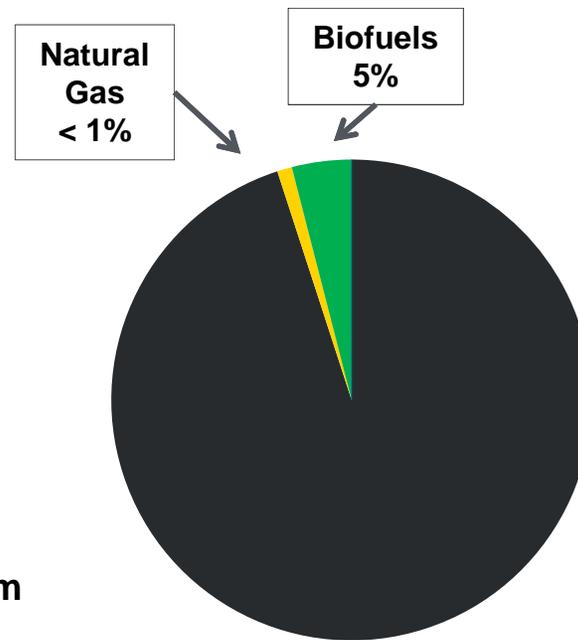
Assistant Secretary for Policy and International Affairs

U.S. Department of Energy

Dearborn, Michigan

June 21, 2012

Transportation sector depends on oil



Petroleum
94%

U.S. Transportation Fuel Share

Gasoline prices are high

Current Avg. \$3.53 (as of June 18)*

High gasoline prices are a burden on American families.



*Source: EIA



U.S. oil import bill is almost \$1 billion per day



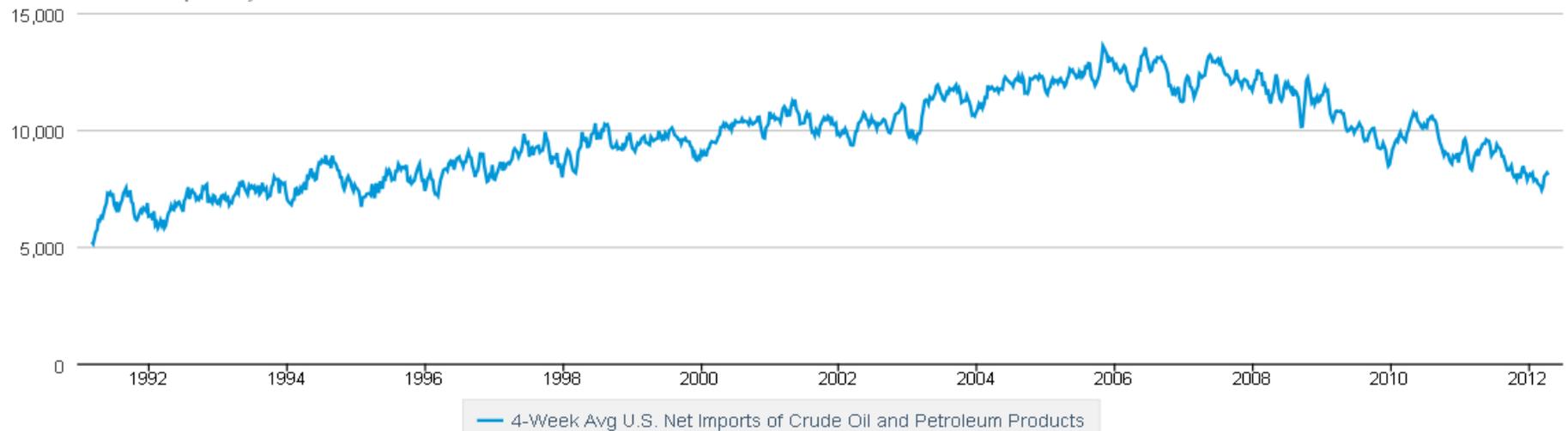
<http://www.eia.gov/petroleum/data.cfm#imports>

although U.S. oil imports are lowest in almost 15 years

4-Week Avg U.S. Net Imports of Crude Oil and Petroleum Products



Thousand Barrels per Day



<http://www.eia.gov/petroleum/data.cfm#imports>

China has a rapidly growing car market

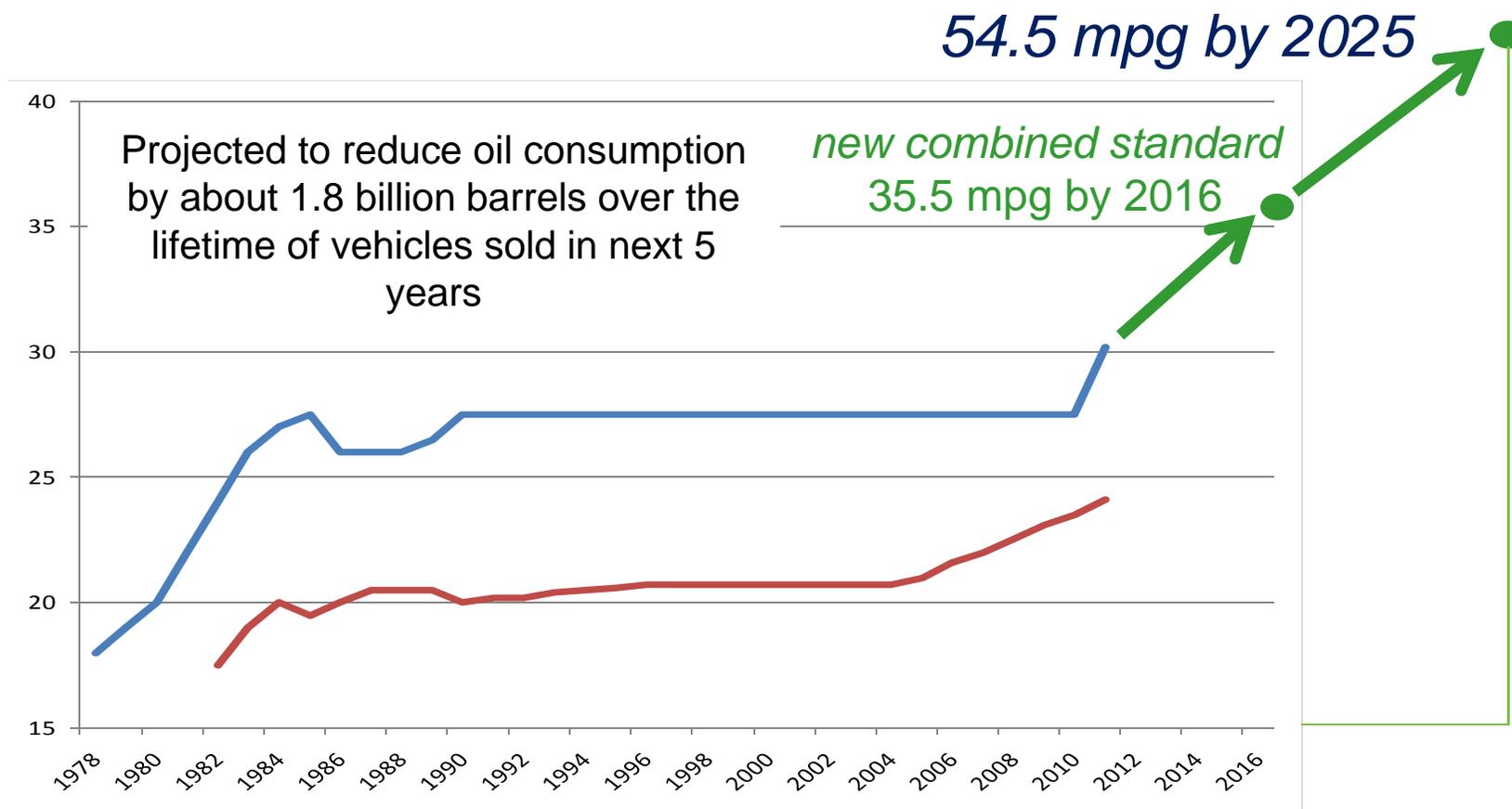
Millions passenger vehicles and trucks



The President's Plan



New Fuel Economy Standards

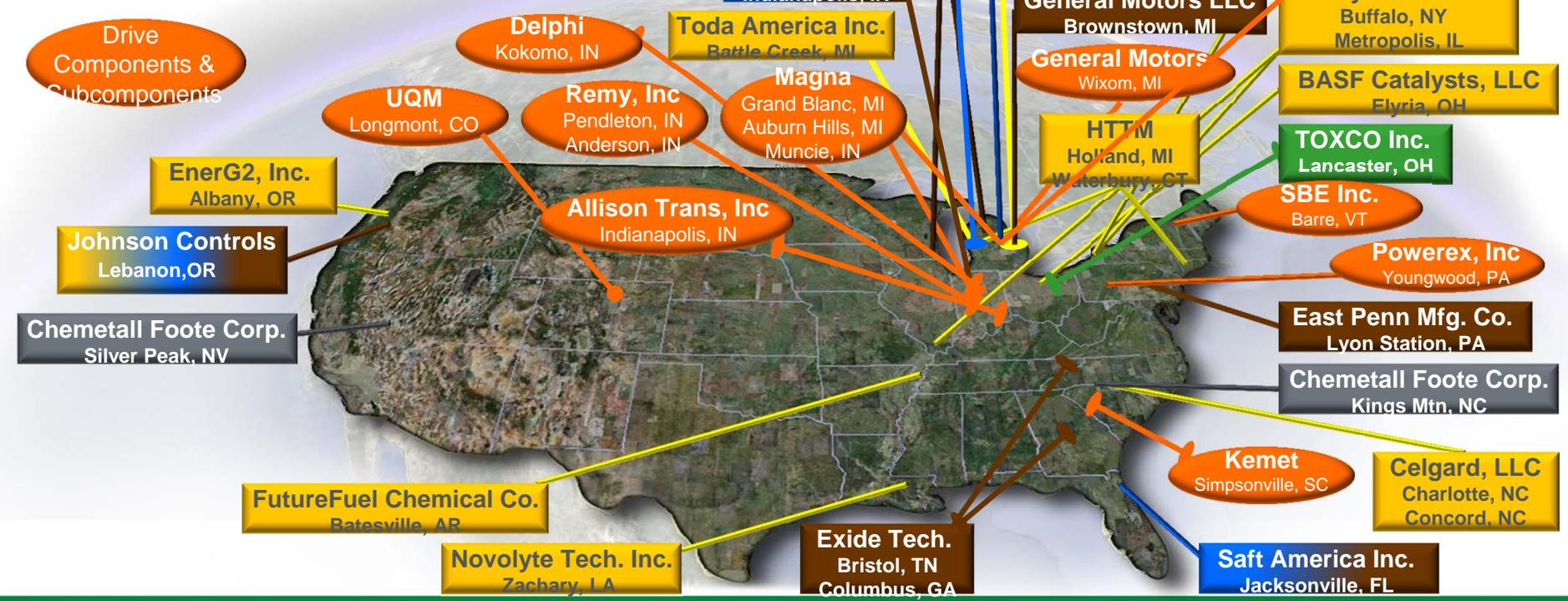


Recovery Act – Battery and Electric Drive Award Distribution

Battery Projects



Electric Drive Projects



Recovery Act – Transportation Electrification

The largest deployment of charge infrastructure in history

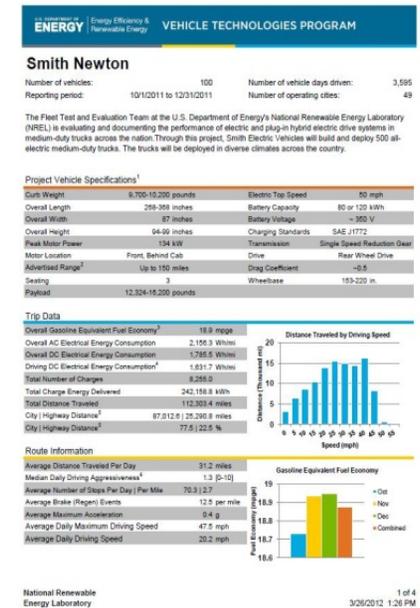
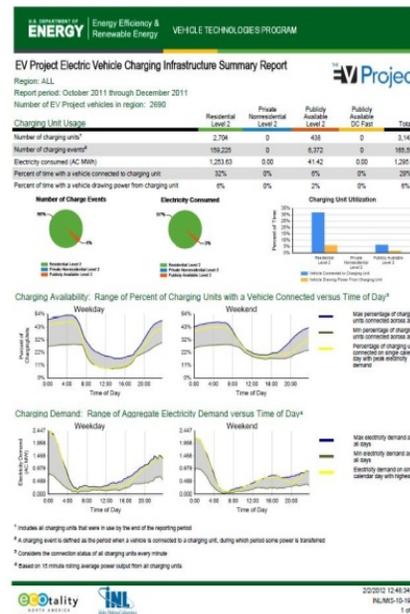
- Goal: Deployment of over 20,000 charging stations supporting 13,000 plug-in vehicles
- Approximately 11,000 EVSEs and nearly 7,000 vehicles as of mid-June, 2012



Recovery Act – Transportation Electrification

Data collection and analysis on thousands of vehicles and EVSEs

- Detailed data analysis provides insight regarding real-world PEV usage, charge infrastructure utilization, and grid impacts
- 113,000 PHEV/EV miles and 4,430 charging events documented *per day*
 - Vehicle data: GPS, odometer, battery state-of-charge, fuel consumption
 - EVSE data: connect/disconnect time, begin-charge/end-charge time, average power, peak power, total energy transferred



President Obama Announces New Initiatives

National Community Deployment Challenge

- \$1 billion for 10 to 15 community alternative vehicle programs
- Builds on \$8.5 million in community readiness grants announced by DOE in 2011 to accelerate installation of EV infrastructure



President Obama announces Deployment Challenge

Advanced vehicle tax credit

- Allow transfer credit to dealer or financier, allowing consumers to benefit at point-of-sale
- Remove cap on the number of vehicles per manufacturer and phase out credit at end of decade
- Increase maximum amount from \$7,500 to \$10,000

The President's FY13 Budget includes \$650 million to further vehicle and battery technology development at the Energy Department

EV Everywhere

A Clean Energy Grand Challenge

- Invest in breakthrough R&D for advanced **batteries**, electric **drivetrain** technologies, **lightweight** vehicle structures, and **fast-charging** technology.
- Bring together America's best and brightest scientists, engineers, and businesses to produce electric vehicles at **lower cost**, with an **improved vehicle range** and an **increased fast-charging** ability



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THANK YOU

