Preparing for the Electric Car: Smart Grid, Clean Energy, and Energy Policy

This breakout group includes a panel of experts to discuss the opportunities and challenges related to preparing for the electric car. This includes the perspective of the electric utility industry, smart grid implications, types of policy and government incentives, driving habits, and impact on vehicle design. This will include interactive discussions of the implications of these emerging trends for Southern Automotive manufacturers. Panel members will include representatives from the automotive industry, energy and utility industries, and academia.

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Preparing for the Electric Car: Smart Grid, Clean Energy, and Energy Policy

(THIS TIME IT IS FOR REAL…REALLY)

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California Wants 1 Million Electric Cars On Its Road By 2020

By John Voelcker
Senior Editor
September 22nd, 2010

379 Views
5 comments

Prototype Toyota Prius Plug-In Hybrid being recharged at curbside station Enlarge Photo

During his 2008 campaign for president, Barack Obama famously said that he wanted one million plug-in cars on U.S. roads by 2015.

That's a goal that many experts continue to think will be extremely hard to attain.

Now California has adopted the same goal for the state alone, but with a different and longer timeframe.

For the Golden State, the deadline is 2020--one that may be much easier to meet.

California is America's car theft capital Enlarge Photo

Clean energy plans

The state unveiled a clean energy plan yesterday that laid out goals and milestones toward reducing both its energy consumption and its contribution to global greenhouse gases, as mandated by the Global Warming Solutions Act (AB32), enacted in 2006, which sets limits on overall emissions of carbon dioxide and other greenhouse gases within the state.

(That groundbreaking rule is being challenged by a November ballot initiative that would delay or roll back its provisions.)

The energy plan mandates that as much as 30 percent of the state's electric power be generated from renewable sources like wind and solar by 2020. Today's total is less than half that.

More zero-emission vehicles

And it requires that automakers sell a

ed
cs
ry Milan Hybrid & New
cts
ry & Nissan Altima
d & Bmw 6-series
& Volkswagen
eg

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TVA Forum Promotes Electric Vehicle Network in Tennessee

NASHVILLE, Tenn., Sept. 8 /PRNewswire-USNewswire/ -- Leaders from federal, state and local governments, the automotive industry and electric utilities met Wednesday in Tennessee – soon to host what is believed to be one of the nation's largest electric vehicle charging networks – to discuss a national transition to electric transportation.

(Logo: http://photos.prnewswire.com/prnh/20100304/TVALOGO)

(Logo: http://www.newscom.com/cgi-bin/prnh/20100304/TVALOGO)

The Fuel Solutions Forum, sponsored by the Tennessee Valley Authority, addressed electricity as a transportation fuel, with an emphasis on education and strategy to help consumers, communities and industry achieve "plug-in readiness."

"The single best way to reduce our energy consumption and dependence on foreign sources of oil would be to electrify our cars and trucks," said U.S. Sen. Lamar Alexander, who delivered the morning keynote address. "Tennessee, with strong leadership b our governor, Nissan North America and TVA, has the opportunity to move the country a step closer to electrifying half our cars and trucks, which would reduce our dependence on oil by about a third and has strong bipartisan support in Congress."

Gov. Phil Bredesen said the TVA forum in Nashville shows the enthusiasm and teamwork contributing to a growing electric vehic industry in Tennessee.

"With partners like the Tennessee Valley Authority, Nissan North America and Oak Ridge National Laboratory, the state of Tennessee has rapidly emerged as a national leader in electric vehicle manufacturing, technology and deployment," Bredesen said. "We are committed to promoting the use of zero-emission electric vehicles to help ensure a clean energy future and to crea more clean energy jobs in Tennessee."

Kim Greene, TVA group president for Strategy and External Relations, said TVA is leading efforts with several partners to develc advanced electric vehicle charging stations that are solar-assisted, fast-charging and able to store energy or send power to the TVA electric grid during high-demand periods.

The emissions reductions and technical innovations associated with electric vehicles align with the renewed vision announced b the TVA Board of Directors in August, Greene said. The vision emphasizes cleaner air through lower emissions, and electric vehicles can play a role.

"TVA is working to be one of the nation's leading providers of cleaner and low-cost energy by 2020," Greene said. "An electric transportation system that is well designed and carefully integrated with the power system can help us achieve both."

A major focus for Wednesday's forum was the plan for Tennessee to have one of the nation's largest systems for this rapidly emerging technology by 2013. This is largely due to TVA's key role in The EV Project, an approximately $230 million public-prive initiative established last year with a $114.8 million grant from the Department of Energy, funded under the American Recovery a Reinvestment Act. The project involves 16 cities in six states and the District of Columbia and is the largest electric vehicle rollou to date.

Under the EV Project, which is managed by ECOtality North America, the Nashville-Knoxville-Chattanooga corridor will serve as national pilot for connecting three metropolitan areas with an electric vehicle charging network. The Tennessee project also will include infrastructure for 1,000 Nissan Leaf plug-in electric cars, more than 2,200 standard charging stations, 60 fast charging stations and 125 solar-assisted charging stations – more than any other area in the nation to date.

"The level of support, collaboration and enthusiasm we've seen from TVA, the state's congressional and gubernatorial leadershi and key stakeholders at every step of the planning process is proof positive that Tennessee is ready to step into the spotlight as national leader in the rollout of electric transportation," said Jonathan Read, CEO and president of ECOtality. "As we begin installing the nation's largest electric vehicle charging corridor in Tennessee, we'll continue working closely with all our partners leverage the lessons learned in Tennessee in communities throughout the United States."

TVA's role includes investigating new electric metering and control technologies for electricity demand response and more efficie

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CENTRAL OREGON'S NEWS LEADER

Governor Forms Oregon Electric-Car Panel

Advisory Council to Help Coordinate Efforts

SALEM, Ore. -- Gov. Ted Kulongoski announced Wednesday the creation of the Oregon Transportation Electrification Executive Council to create a central point of coordination of electric vehicle strategy, development and deployment for the state.

The governor made the executive order announcement at the same time that ECOtality unveiled its electric vehicle infrastructure plan for Portland, Salem, Eugene and Corvallis, where the company plans to install more than 1,100 publicly available charging stations over the next several months.

"We have made great progress, coordinating across city, county and state sectors as well as private companies like ECOtality to make Oregon an entry point for transportation electrification – but we cannot stop here," said Kulongoski. "This is a long-term vision, a long-term mission – and we must make a long-term commitment to not only bring this next generation of cars to our communities, but also a commitment to make this transition to cleaner cars a successful one."

In February, the governor received a report by the Alternative Fuel Vehicle Infrastructure Working Group that focused on infrastructure deployment and opportunities for developing alternatives to gasoline powered vehicles.

The Working Group's leading recommendation was for the creation of an executive council to serve

A123 Systems Opens Li-Ion Battery Plant in Michigan

Submitted by AaronT on Thu, 09/16/2010 - 16:11

In brief: Lithium-ion battery innovator A123 Systems has announced the opening of the largest li-ion automotive battery production plant in North America with the opening of Livonia, MIchigan plant's grand opening.

The word

The plant boasts the capability of producing 600 megawatt hours worth of batteries per year when fully operational.

The plant was built using a $249 million grant from the U.S. Department of Energy. The company will focus on prismatic cells and systems in the new 291,000 square foot

-governor-hopes-to-i...

actory is an all-inclusive operation with everything on-site for nufacturing from raw materials.

ıs has customers for automotive battery technologies ranging from ter to Shanghai Automotive Industry Corp. The company has also mart Grid Stabilization Systems (SGSS), delivering over 20MW worth ıs to customers worldwide.

d to be one of the biggest battery makers in the world, with to 760MWh.

: A123 Systems

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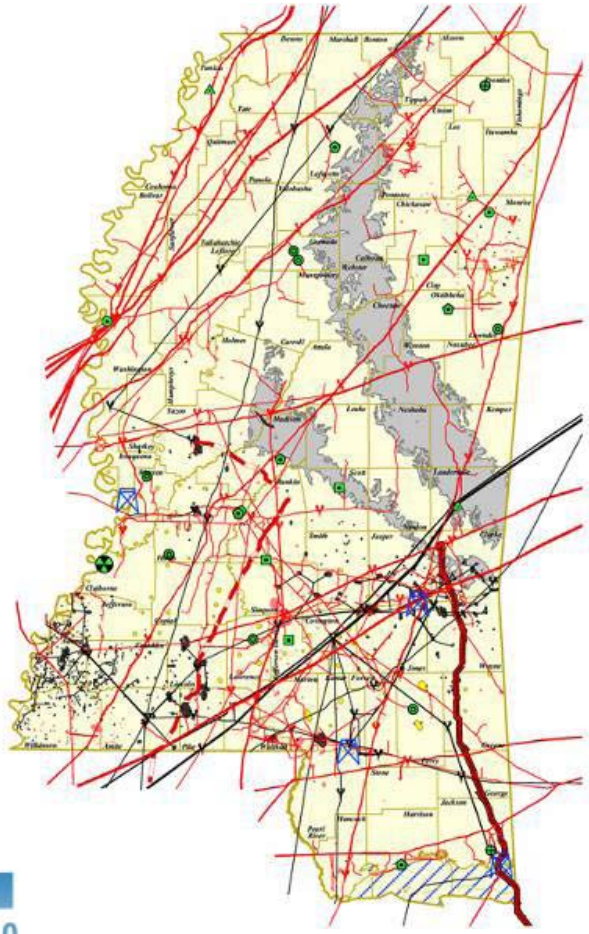
Connecticut governor hopes to implement electric vehicle incentives

by Sam Abuelsamid (RSS feed) on Sep 11th 2010 at 6:15PM

After nine months of meetings, the Electric Vehicles Infrastructure Council created by Connecticut Governor M. Jodi Rell has issued its final report on how to promote the use of plug-in vehicles in the state. The list of proposed incentives covers all of the usual bases but doesn't get too specific about anything.

What is MEPI and Why?



- Refinery
- Nuclear Power Plant
- Gas Compressor Station
- Oil Pumping Station
- Natural Gas Line
- Oil Line
- Destin Pipeline
- CO_2 Gas Line
- Shallow Salt Dome (Piercement)
- Oil Field
- Gas Field
- Coal - Bearing Strata (Lignite)
- Federal Leasing Boundary
- Gulf Of Mexico

Renewable Energy Generation

- Biomass - Biodiesel
- Biomass - Ethanol
- Biomass - Methane Gas Capture
- Biomass - Timber Residues
- Solar & Wind
- Geothermal

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State Energy Policy Landscape

MEPI Committees

- **Energy Efficiency and Conservation**
- **Smart Grid**
- **Workforce Needs of the Energy Sector**
- **Renewable Energy Sources**
- **Inventory of Resources and Infrastructure**
- **New Automotive, Aerospace, and Defense Technologies**
- **Nuclear**
- **Natural Gas**
- **Carbon, Capture, Sequestration, and Storage**
- **Mississippi and National Energy Policy Impact**

MEPI Committees

- **Smart Grid**
  - Defined the Smart Grid
  - Encouraged the Public Service Commission to develop a Smart grid Standard

MEPI Committees

- **Energy Efficiency and Conservation**
- **Smart Grid**
- **Workforce Needs of the Energy Sector**
- **Renewable Energy Sources**
- **Inventory of Resources and Infrastructure**
- **New Automotive, Aerospace, and Defense Technologies**
- **Nuclear**
- **Natural Gas**
- **Carbon, Capture, Sequestration, and Storage**
- **Mississippi and National Energy Policy Impact**

MEPI Committees

- **New Automotive, Aerospace, and Defense Technologies**
  - Smart Grid components manufacturing
  - Recruit Mississippi advanced battery technology companies
  - Develop and promote public infrastructure to support the electric and hybrid car

MEPI Committees

- **Energy Efficiency and Conservation**
- **Smart Grid**
- **Workforce Needs of the Energy Sector**
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- **Mississippi and National Energy Policy Impact**

Energy Independence and Security Act of 2007

Current Law: President Bush Signs the Energy Independence and Security Act of 2007

- Defines Plug-In Electric Drive Vehicle
- Plug-in Electric Drive Vehicle Program
- Near-Term Transportation Sector Electrification Program
- Created new programs at universities to support related majors
- Domestic Manufacturing Conversion Grant Program
- Loan guarantee program for private sector battery manufacturing facilities
- Inclusion of Electric Drive in Energy Policy Act of 1992
- Advanced Battery Loan Guarantee Program
- Advanced Technology Vehicles Manufacturing Incentive Program

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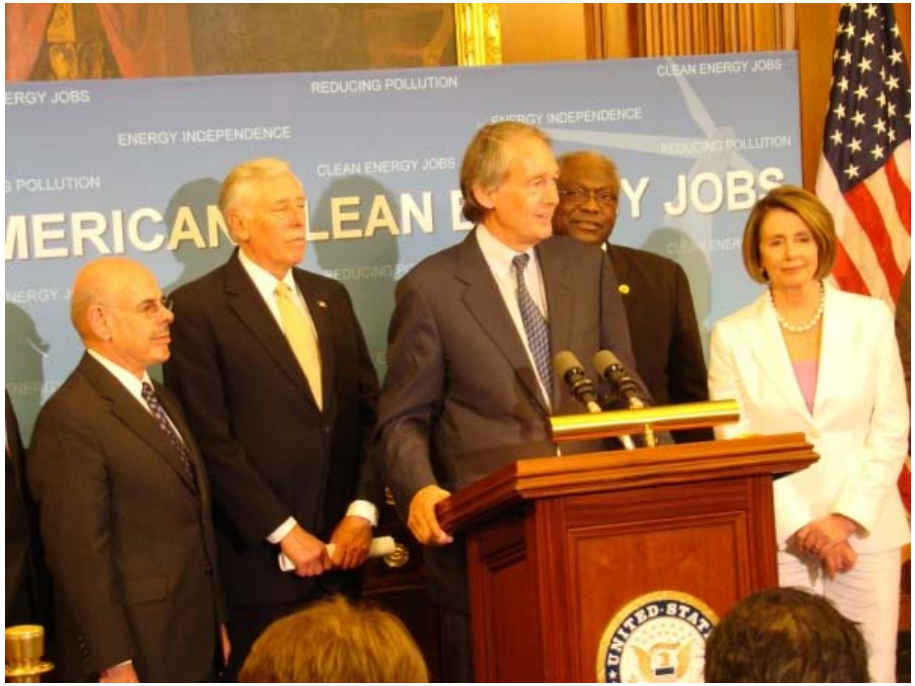
Federal Energy Policy Landscape



- Required public utilities to develop a plan to support the use of EVs
- Required state regulatory entities to develop smart grid protocols
- DOE program to specifically integrate electric vehicles in to the grid
- Vehicle Manufacturing Assistance Program for automotive manufacturers

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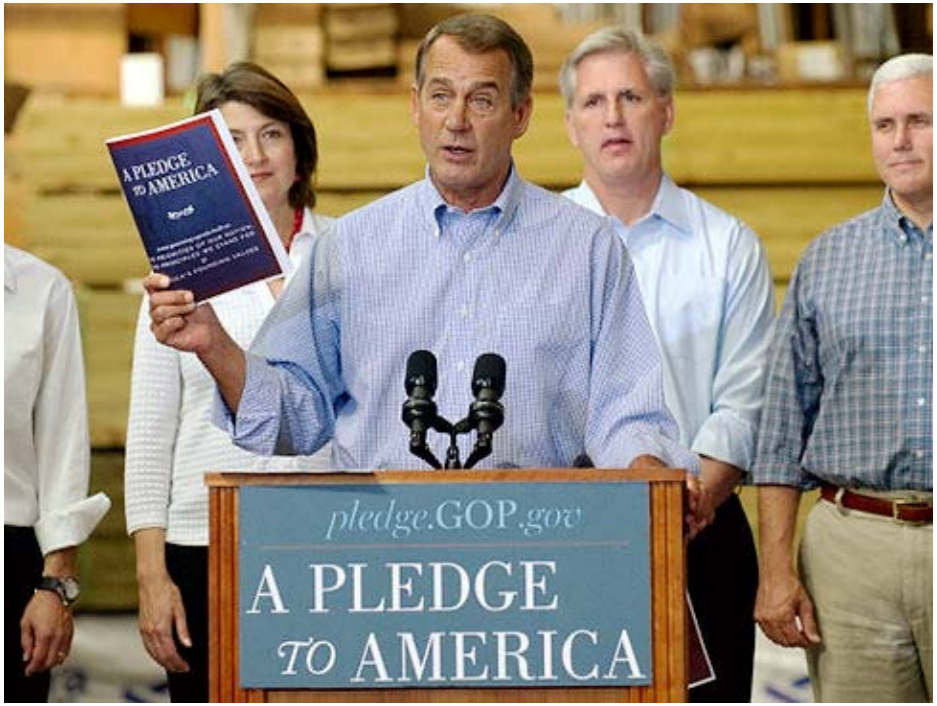
ARRA

- Modified Plug In Electric Vehicle Credit
- Plug In Hybrid Conversion Kit Tax Credit



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Our Other Panelists

- Dan Heur, Senior Manager for Manufacturing Program Management for Electric Vehicles, Nissan North America
- Mr. Rusty Burroughs Vice President, Integrated Energy Management of Entergy
- Dr. Roger King of the Center for Advanced Vehicular Systems, Mississippi State University