

Open Gov @ Energy

*Transparency, Participation,
Collaboration*

Cammie Croft
Senior Advisor,
Director of New Media and Citizen Engagement



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“My Administration is committed to creating an unprecedented level of openness in Government. We will work together to ensure the public trust and establish a system of transparency, public participation, and collaboration. Openness will strengthen our democracy and promote efficiency and effectiveness in Government.”

President Obama, January 21, 2009



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Energy 101: Geothermal Heat Pumps

Energy 101: Geothermal Heat Pumps



The latest edition of Energy 101 illustrates why more and more people are turning to geothermal heating and cooling to decrease energy costs while reducing their carbon footprint.

For a more detailed breakdown of the benefits of geothermal heat pumps visit the [Energy Blog](#).

Cool Roofs: Your Questions Answered

Researchers at Idaho National Laboratory (INL) and the Center for Advanced Energy Studies have been spending time in a cave even cooler than one occupied by the Jeff Bridges character in "The Big Lebowski." They installed 80 heat sensors there to include a fair number of questions from his Facebook fans, so we decided to reach out to the people behind the project for their insight on the specific benefits of switching to a cool roof, and what went into making that choice.

[Read More >](#)

Cool CAVES

Researchers at Idaho National Laboratory (INL) and the Center for Advanced Energy Studies have been spending time in a cave even cooler than one occupied by the Jeff Bridges character in "The Big Lebowski." They installed 80 heat sensors there to include a fair number of questions from his Facebook fans, so we decided to reach out to the people behind the project for their insight on the specific benefits of switching to a cool roof, and what went into making that choice.

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10 Ways to Save Money and Energy in the New Year

"Keeping things simple" and "getting back to basics" are two ideals I naturally gravitate to. And while I'm not usually someone who makes New Year's resolutions, I am a big fan of top 10 lists. While pretty straightforward, these easy tips are great way to save money and energy throughout the new year. So here goes, my personal top 10 ways to save money and energy in 2011.

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News

DOE Completes \$17 Million Loan Guarantee for New York Energy Storage System with Recovery Act Funds

Washington D.C. – Energy Secretary Chu announces a \$17.1 million loan guarantee has been issued for the AES Westover facility.

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DOE Announces up to \$74 Million for Fuel Cell Research and Development

The U.S. DOE announces it is accepting applications for a total of up to \$74 million to support the research and development of clean, reliable fuel cells for stationary and transportation applications.

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Energy.gov 2010



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The Problem



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The Solution: the Energy.gov Renewal Project

Making Energy.gov a cutting edge, 21st century online communications platform that provides citizens with a clear, consistent and reliable user-experience wherever and whenever they want it, while also empowering DOE employees with simple tools and straightforward guidance to communicate and interact with citizens and each other.



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Our Goal

**Make Energy.gov the resource
for energy information and set
a new standard for federal web
sites.**



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Energy
Science
Nuclear Stewardship } Public
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Why focus on service?



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The Result

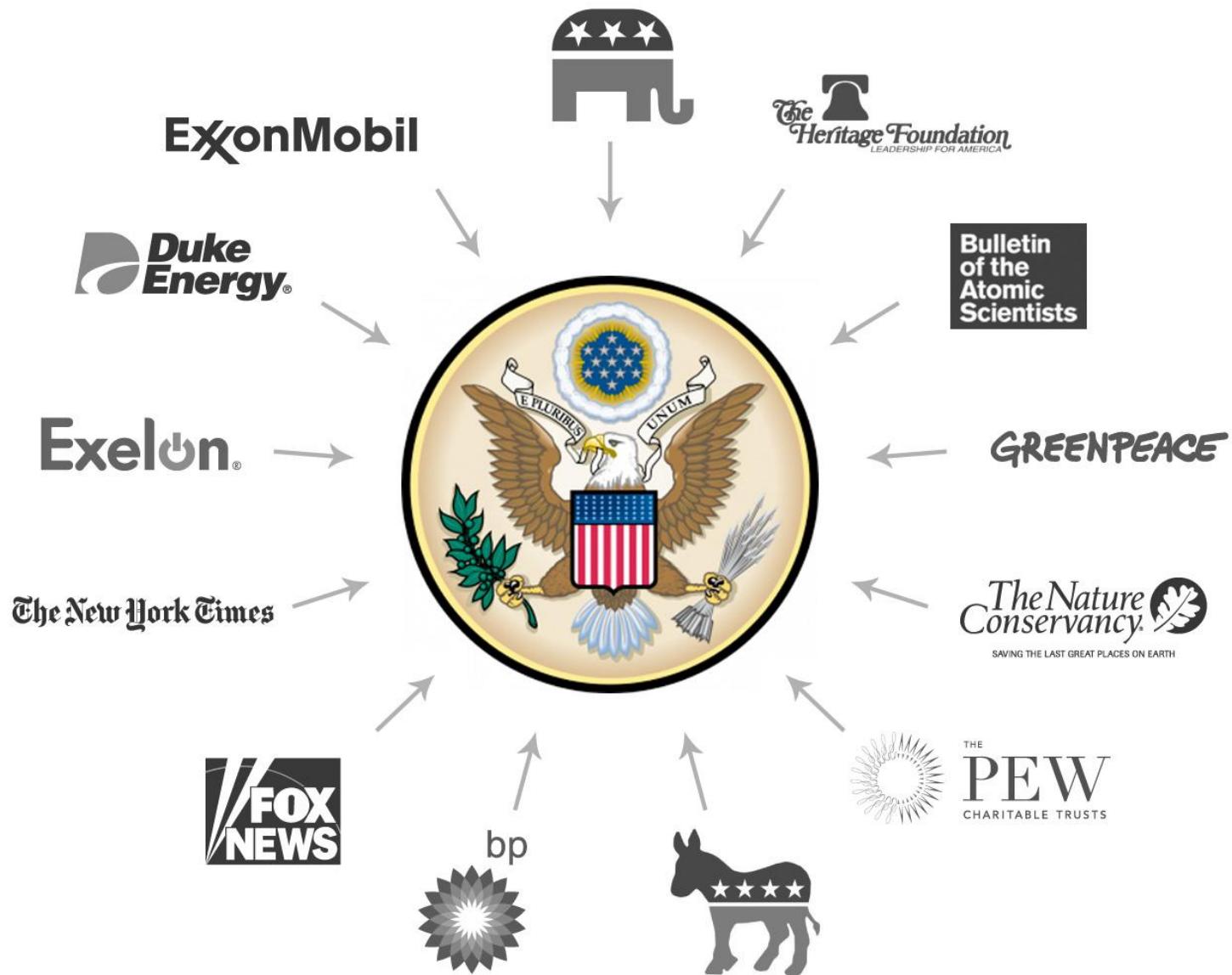
When we address needs at the individual level, we achieve national goals.



For individuals, the debate on
this topic can be overwhelming



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Meet Pete.

- **Buffalo, NY**
- **Contractor**
- **47, married**
- **3 kids**
- **Looking for a new truck**



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How is Pete affected by energy policy?

- **Jobs**
- **Gas Prices**
- **Utility Prices**
- **Economy**
- **Neighborhood Issues**
- **Taxes**
- **Pollution**



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Pete cares about...

- His wallet, job, family, town and nearby environment.

Pete doesn't know...

- How to save energy to save money
- Sources of his power
- The cost of energy next year

Sources: HUGE Homeowner & Small Business Owner Surveys, 2010
Public perceptions of energy consumption and savings, National Academy of Sciences, 2010



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Public Service

Rebates on
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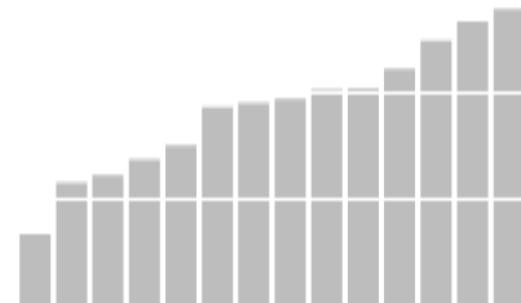
Individuals

Financial Savings



National Goals

Reduced Energy
Use, Increased
Retail Sales, Jobs &
Manufacturing



Clean Energy
Economy Growth



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Achieving national priorities by supporting local decisions



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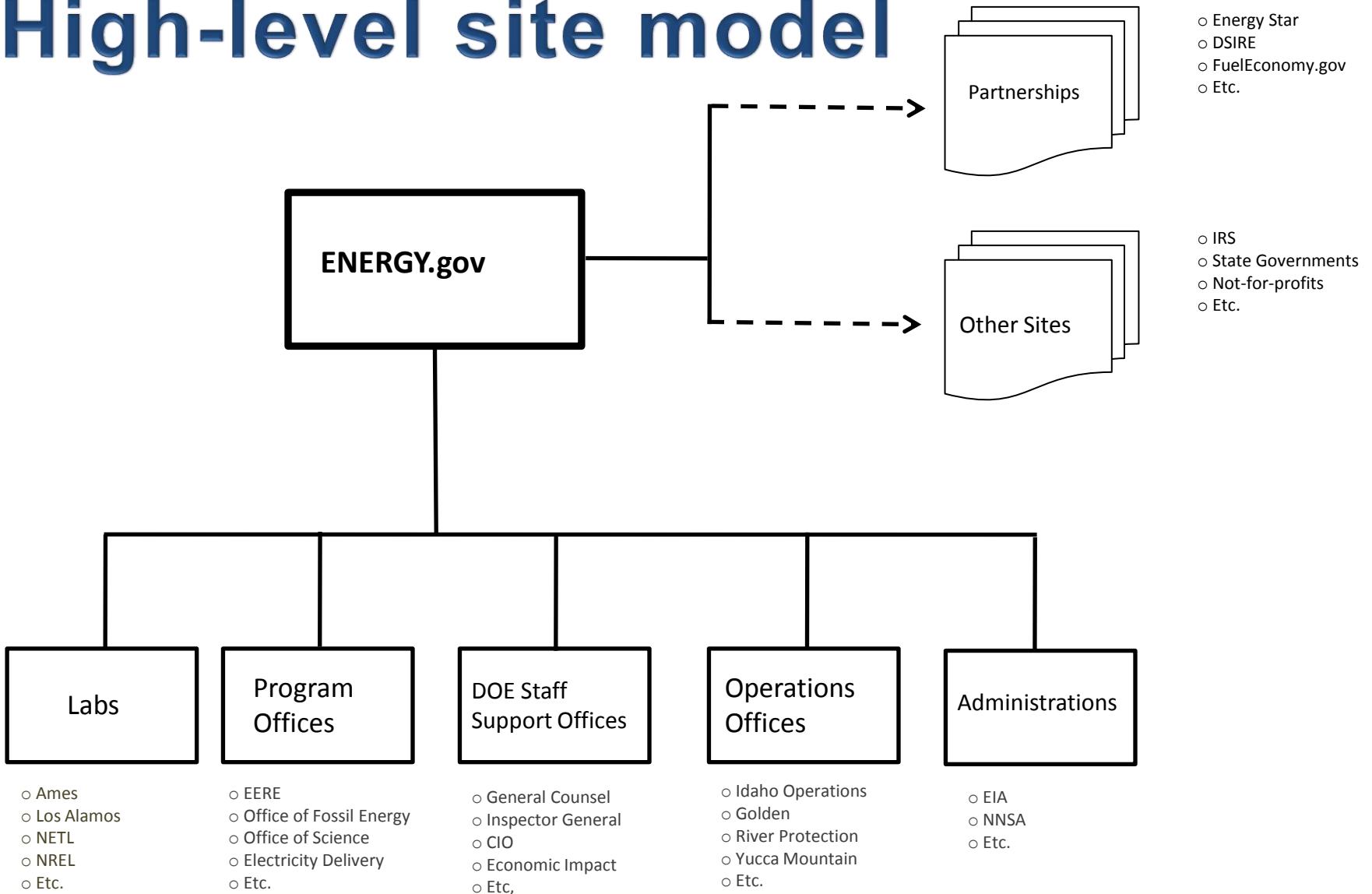
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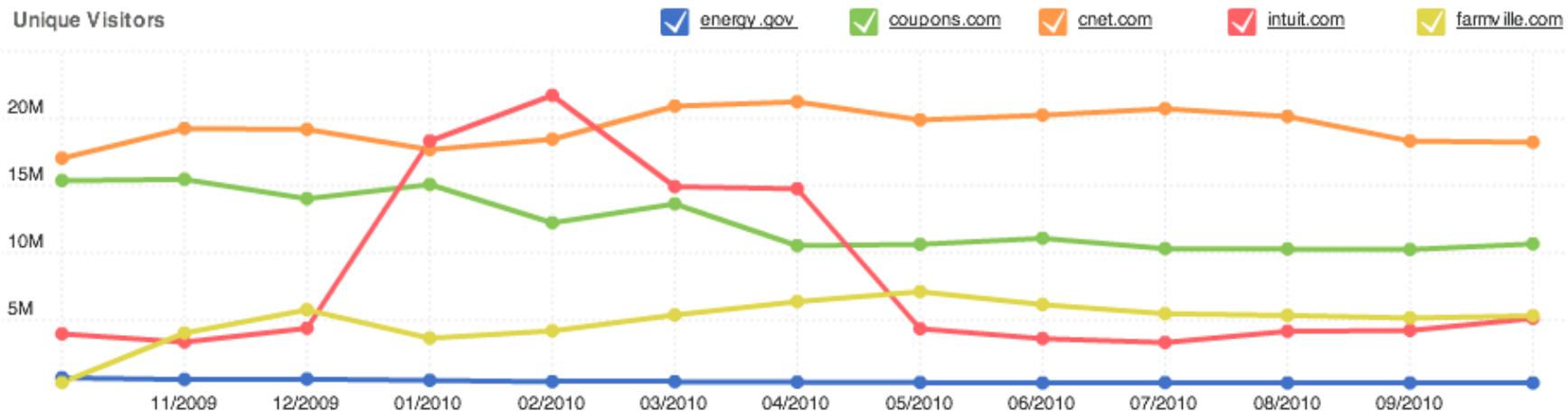
High-level site model



Third Imperative

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Pacific Northwest National Laboratory Breakthrough

How a catalyst to convert corn, soy and sunflowers into propylene glycol extra efficiently is reducing America's dependence on foreign oil and creating American jobs.

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Feature: Commercialization

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Home COMMERCIALIZATION

STEPS TO COMMERCIALIZATION

The diagram illustrates the seven steps of commercialization:

- RESEARCH: DOE-funded scientists at National Labs and universities conduct scientific discovery with potential commercial value.
- DISCLOSURE & IP PROTECTION: The scientists inform the lab's technology transfer office about the invention.
- LICENSING: Once the patenting process has begun, interested companies can license DOE-held inventions.
- INTEGRATION & COLLABORATION: The company, often working with DOE support, integrates the discovery into a potential product.
- TESTING & VALIDATION: The new prototype is tested and its commercial value of the discovery is confirmed.
- PRODUCT DEVELOPMENT: The tested prototype is turned into a commercial product.
- MANUFACTURE & DEPLOYMENT: The new product is mass produced, brought to market, and sold.

See an example of these steps in the commercialization process of Nickel Metal Hydride Batteries.

From the Lab to the Showroom: How the Electric Car Came to Life

In the U.S., businesses tend to invest in research that will pay off in the short term. National laboratories are filling a gap by conducting the essential research that will change the game 10 to 20 years down the road. Learn more about how years of conducting advanced research in both the private and public sectors led to battery technology that made electric cars possible.

PNNL Breakthrough Leads to Less Foreign Oil, More American Jobs

A highly efficient catalyst to convert renewable crops into the product propylene glycol was discovered by scientists at the Pacific Northwest National Laboratory and commercialized by the Archer Daniels Midland Company.

CLEAN ENERGY MARKETS

Renewable Electricity Generation as a Percent of Total Generation
For 11 countries in 2010

Country	Renewable Electricity Generation as a Percent of Total Generation (2010)
United States	11%
China	10%
Germany	10%
United Kingdom	9%
Denmark	8%
Iceland	7%
Norway	7%
Sweden	6%
Australia	5%
Portugal	5%
Finland	4%

Winning the global race depends on the US's ability to deploy clean energy technologies developed by the US innovation engine.

WORK WITH THE DOE LABS

In 2010 alone, the Energy Department's 17 laboratories and 5 facilities executed more than 13,500 technology transfer transactions.

AMERICA'S NEXT TOP ENERGY INNOVATOR

Option up to three National Laboratory technologies for just \$1000. Learn how.

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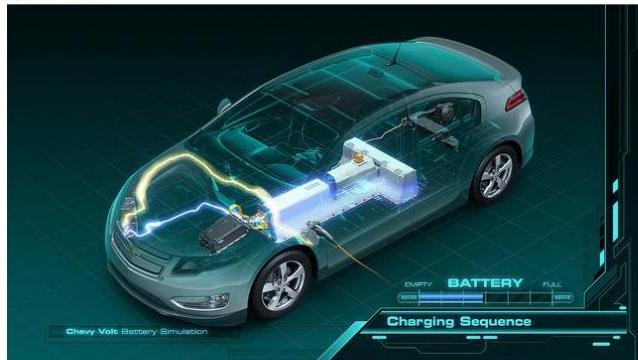
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From the Lab to the Showroom: How the Electric Car Came to Life

October 17, 2011 - 11:02am

An illustration of the 2011 Chevy Volt, whose lithium-ion battery is based on technology developed at Argonne National Laboratory. | Image courtesy of General Motors.

**John Schueler**
New Media Specialist, Office of Public Affairs

Years of conducting advanced research in both the private and public sectors have crystallized the complementary nature of their work for Jeff Chamberlain, who currently heads up battery research and development for Argonne National Lab.

"In the U.S., businesses tend to invest in research that will pay off in the short term. National laboratories are filling a gap by conducting the essential research that will change the game 10 to 20 years down the road."

That relationship is evident in the energy storage sector, where advanced research has helped to develop the technologies that power many of the products we use on a daily basis. Great strides in battery research have allowed laptops and cell phones to become constant companions and helped realize the long held goal of creating hybrid and electric vehicles.

But those innovations weren't always inevitable. In fact, for the better part of the past decade the general perception was that the electric car was an impractical concept. Lacking in range and too expensive for mass production, the auto industry had all but written off any hope of bringing an all electric model to the larger market. So what changed? How did the electric vehicle go from a failed afterthought to a prime time player in just a matter of years?

THE WORK AT ARGONNE ENDS UP IN THE HANDS OF TAXPAYERS WHO PAID FOR RESEARCH

• Jeff Chamberlain, head of battery R&D for

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October 21, 2011

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 **Richard Kauffman** GET UPDATES FROM RICHARD KAUFFMAN
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Clean Energy Markets: We've Got the Innovation and Deployment Cart and Horse Backwards

Posted: 10/19/11 03:16 PM ET

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Energy.gov will be hosting a live video chat with Richard Kauffman this Thursday at 2:00 PM ET.

China has become the world's largest producer of solar modules. But did you know that these Chinese manufacturers are using technology breakthroughs developed in the United States?

And it's not just China using our technology innovations. Many European countries -- who produce substantially more of their electricity from renewable energy than the United States -- depend on our nation's thriving

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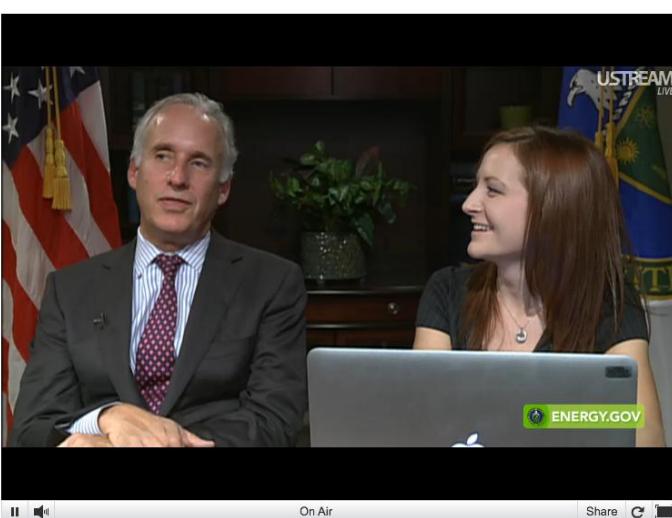
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Home ENERGY MATTERS: CLEAN ENERGY TECHNOLOGY MARKETS

The **successful commercialization** of technologies from the Energy Department's National Laboratories create jobs, businesses, industries and impact Americans' lives every day. However, to ensure American leadership in emerging energy technologies, we must address the financial and deployment obstacles facing renewable energy. Join Richard Kauffman, Senior Advisor to the Secretary of Energy, for a live discussion about the challenges and opportunities of renewable energy innovation and deployment.



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Say something... Say 100

 **zac canders** Follow-up to question - How will ISO's address distrib generation within TOU markets? Who benefits.. 30 seconds ago

 **D_Hawk** @ENERGY Q for Kauffman: What is the Obama administration's long-term policy for renewable energy? #energy matters 30 seconds ago

 **UstreamTV** LIVE NOW: Ask Richard Kauffman your Qs about renewable energy tech potential during the #energy matters chat w/ @ENERGY. <http://t.co/9aumujn1> 2 minutes ago

 **Mikewofsey** This Kaufman fellow is incredible, excellent communicator. I hope he does this again. 3 minutes ago

 **Kemper Talley** Are there any plans to close the nuclear fuel cycle? Or is this too far away? 5 minutes ago

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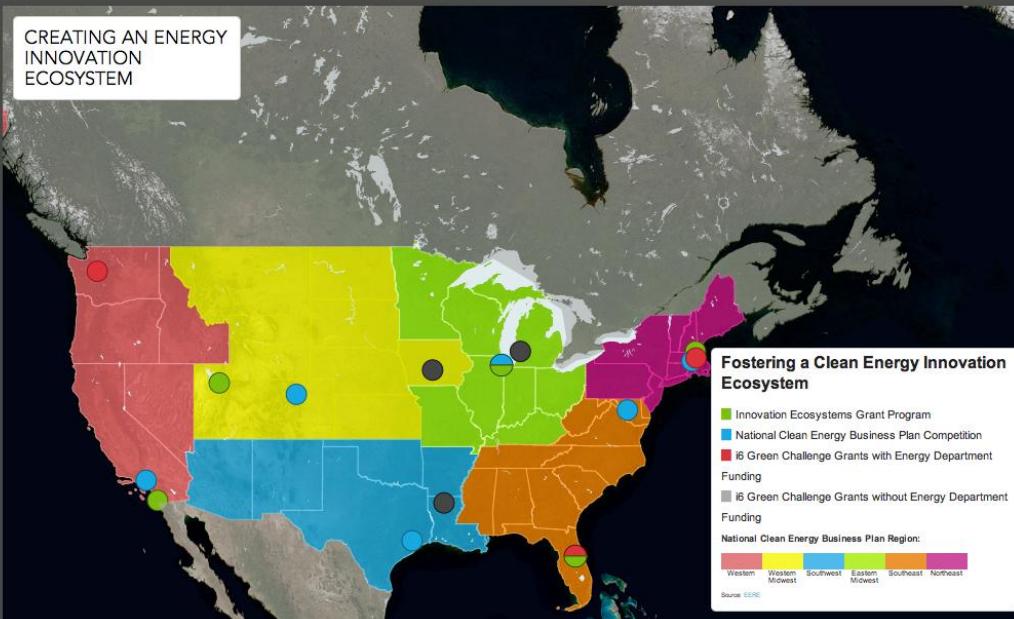
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CREATING AN ENERGY
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Regions for the National Clean Energy Business Plan Competition, Locations of Clean Energy Business Incubators and i6 Innovative Proof of Concept Centers



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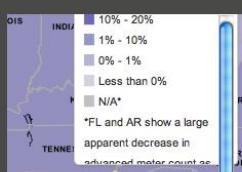
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2011 Grants for Offshore Wind Power



2010 Smart Meter Installations

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