



# Remarks to GridWeek

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# Our Purpose: Putting More People Back to Work And More Money in the Pockets of those Who Are Working

## American Jobs Act

*Address to Joint Session of Congress*



## Fueling Innovation & Entrepreneurship

- #1: Boosting Access to Capital for High Growth Companies
- #2: Turning Job Seekers to Job Creators
- #3: Unleashing Mobile Broadband Revolution
- #4: Modernizing 35,000+ Schools, NextGen Air Traffic System
- #5: Making Government Services Transparent to Job Creators

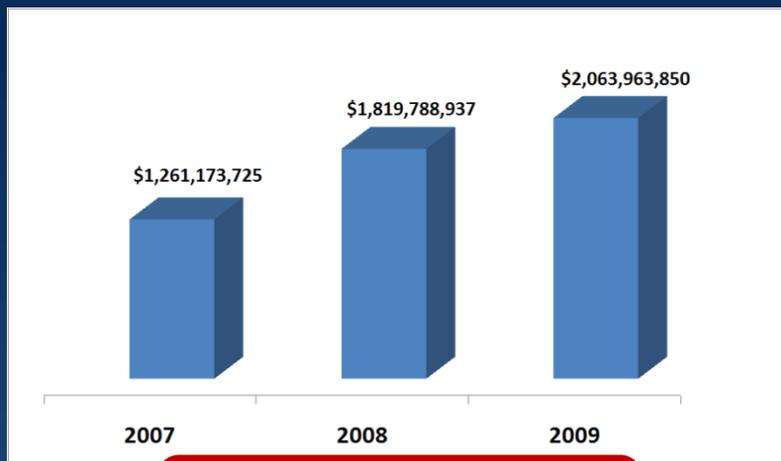
“This task, of making America more competitive for the long haul, is a job for all of us.... All of us will have to up our game.” –President Obama, 09/08/11



# “Make Locally and Sell Globally”

## Clean Energy Exports a Contributor to Jobs

### Renewable Energy Export Initiative



**Welcome, Indian  
Smart Grid Delegation**

**Powering Green  
Energy Exports**

Federal Resources for U.S. Firms  
in the Renewable Energy and  
Energy Efficiency (RE&EE) Sectors

### Growth Firms Winning the Future



**Lighting Science  
Group partners with  
Dixon on \$15 60  
watt-equivalent LED  
bulb for Indian  
market; prototyping  
a “smart blub”**

**Tendril partners  
with Australia’s  
Origin Energy  
on consumer  
engagement**



# Enable Cost-Effective Investments

## Early Insights from ARRA to Help Scale What Works

The screenshot shows the SMARTGRID.GOV website. At the top, there are navigation tabs: "What is the Smart Grid?", "Recovery Act Smart Grid Programs", "Federal Smart Grid Initiatives", and "Smart Grid Information Clearinghouse". Below the tabs is the SMARTGRID.GOV logo and a search bar. A red callout box on the left contains a collage of images related to smart grids and a text box that reads: "Example: NETL Wind Integration tests three 'apps' – data portal to match generation to load; synchrophasors for reliability; TX community 'test bed'". A green callout box on the right contains the text: "Importance of inventorying 'active ingredients' of success". The website content includes sections for "What is the Smart Grid?", "Recovery Act Smart Grid Programs", "Federal Smart Grid Initiatives", and "Smart Grid Information Clearinghouse".

**Example: NETL Wind Integration tests three "apps" – data portal to match generation to load; synchrophasors for reliability; TX community "test bed"**

**Importance of inventorying "active ingredients" of success**



# Unlock the Potential of Innovation

## ARPA-E Investments, NIST Standards Activities Spur Creativity

### Advanced Electronics

#### Grid Modernization



	Frequency	Mass	Volume
<b>Today</b>	<b>60 Hz</b>	<b>8,160 lb</b>	<b>4.80m<sup>3</sup></b>
<b>Tomorrow</b>	<b>50 kHz</b>	<b>100 lb</b>	<b>0.14m<sup>3</sup></b>

**Early-stage firm, GeneSiC, leads the way in designing a miniaturized grid transformer**

### NIST Standards Collaboration

**Governance: 600+ private sector participants endorse, develop consensus standards; example: PAP10 "Energy Use"**



# Secure the Grid

## Obama Cybersecurity Proposal Emphasizes Critical Infrastructure

### The White House Blog

Subscribe

#### The Administration Unveils its Cybersecurity Legislative Proposal

Posted by Howard A. Schmidt on May 12, 2011 at 02:00 PM EDT

Today I am happy to announce that the Administration has transmitted its Cybersecurity Legislative Proposal to Capitol Hill in response to Congress' call for assistance on how best to protect the Nation. This is a milestone in our national effort to ensure secure and resilient networks for our citizens, businesses, and government; fundamentally, this proposal strikes a balance between protecting the Nation's cyberspace with the capacity to innovate and grow, while providing a robust framework to protect

**Enables voluntary technical assistance and information sharing with DHS to address threats, with robust privacy oversight**

**Smart Grid approach emphasizes transparency to help market forces ensure that critical-infrastructure operators are accountable for their cybersecurity**

the Cyberspace Policy Review (pdf) almost two years ago, he declared cyberspace in the United States and its security just as vital. This legislative proposal is the latest step in the progress we are making in securing cyberspace and completes another key recommendation of the Cyberspace Policy Review.

**Additional Note on Privacy: Administration calls for "online privacy bill of rights" emphasizing enforceable codes of conduct**

The Administration proposal helps safeguard your personal data and privacy. If your information has been compromised. In addition to educating you on how to protect your information through the Think. Connect. campaign, we believe organizations should inform you if your information may have been compromised. This notice not only helps you to protect your information but also incentivizes organizations to have better data security in the fragmented patchwork of 47 state notification laws. Our proposal simplifies and streamlines



# Empower Consumers and Enable Better Decisions

## Data.gov Model for “Computer-Friendly” Access, Importance of Privacy

### Energy.Data.gov

**“To the extent practicable ...publish information online in an open format (machine readable) without restrictions that would impede..re-use...”\***

### Empowerment Case Studies

Start Time	End Time	Usage (kWh)
12:00 am	12:15 am	66.23KWH
12:15 am	12:30 am	20.3KWH
12:30 am	12:45 am	77.92KWH
12:45 am	01:00 am	43.37KWH
01:00 am	01:15 am	97.7KWH
01:15 am	01:30 am	42.9KWH
01:30 am	01:45 am	16.9KWH
01:45 am	02:00 am	16.9KWH
02:00 am	02:15 am	16.9KWH
02:15 am	02:30 am	16.9KWH

**ARRA grants to Reliant, CenterPoint, NSTAR, others enhance open access to usage data**



# “Click a Simple Blue Button and Download” Data President’s Open Government Agenda Defaults to Transparency

## “Blue Button” in Brief

## Scaling What Works

The screenshot shows the VA health.mil website interface. On the left, there's a navigation menu with a 'Blue Button' icon. The main content area displays a patient's personal health information, including authentication status, facility ID, and demographic details like name, gender, blood type, and date of birth. A portrait of a man in a suit is overlaid on the right side of the screenshot.

The screenshot shows the Blue Button website. At the top, there's a navigation bar with 'About', 'How To', 'Commit', and 'Advocate' links. The main content area features a large blue button icon and the text 'a simple concept with transformative potential'. Below this, there's a quote from Aneesh Chopra, White House Chief Technology Officer, and a 'commit now' button. The website also includes a Twitter feed and a section titled 'THOSE WHO HAVE MADE THE COMMITMENT'.

**President challenges VA to deliver simple health download from PHR on 08/10; delivered 10/10 and has >400,000 users to date**

**Aetna, United, Walgreens, PatientsLikeMe and dozens of others pledge to offer service to millions of Americans**



# A Challenge – Design a “Green Button”

## Open Collaboration Principles Can Empower Consumers, Quickly

*A Challenge to Industry:* How can we safely and securely provide customers electronic access to their energy information, thereby supporting the continuing development of innovative new products and services in the energy sector?

### Key Principles

- Use SGIP standards
- Open, Collaborative
- Multi-Stakeholder
- “Lean Startup”
- Easy-to-use



# “There’s Never Been a Better Time to Innovate”

## EA Sports Accesses NASA Imagery to Boost Choices in SSX



### Data Sets

Released Publicly

**21**  
Tools

**512**  
Geodata Catalogs

**3**  
Raw Catalogs

**17**  
Earth Science  
Data Directories

**11**  
Space Science  
Data Directories

**3**  
Data For Educators  
Data Directories

**3**  
Desktop Data Tools

**2**  
NASA HR  
Data Directories

