



Washington Update

The Parker Ranch installation in Hawaii

**Federal/Utility
Partnership Working
Group**

David McAndrew
October 20, 2010
Rapid City, SD

- **FEMP Updates**
- **GHG Guidance Update**
- **EISA Section 432 Update**
- **Mark Your Calendar**

- Richard Kidd is leaving FEMP
 - Will become Deputy Assistant Secretary of the Army for Energy and Sustainability
 - Skye Schell will assume the role of interim Program Manager
- Jesse Feinberg (Energetics) departed over the summer to attend grad school Columbia
- Sarah Mabbitt (smabbitt@energetics.com)
 - Sarah will be playing key roles including leading UESC data collection efforts

- Covers clean energy deployment and energy security signed on July 22, 2010
 - Demonstrate federal government leadership in transitioning America to a low carbon economy
 - Accelerate clean energy innovation
 - Enhance national energy security
 - Broaden collaboration on clean energy technology research, development, and demonstration
- Should lead to better collaboration with:
 - Other Energy Efficiency Renewable Energy Offices (EERE)
 - Office of Science (SC)
 - Office of Electric Delivery and Energy Reliability (OE)

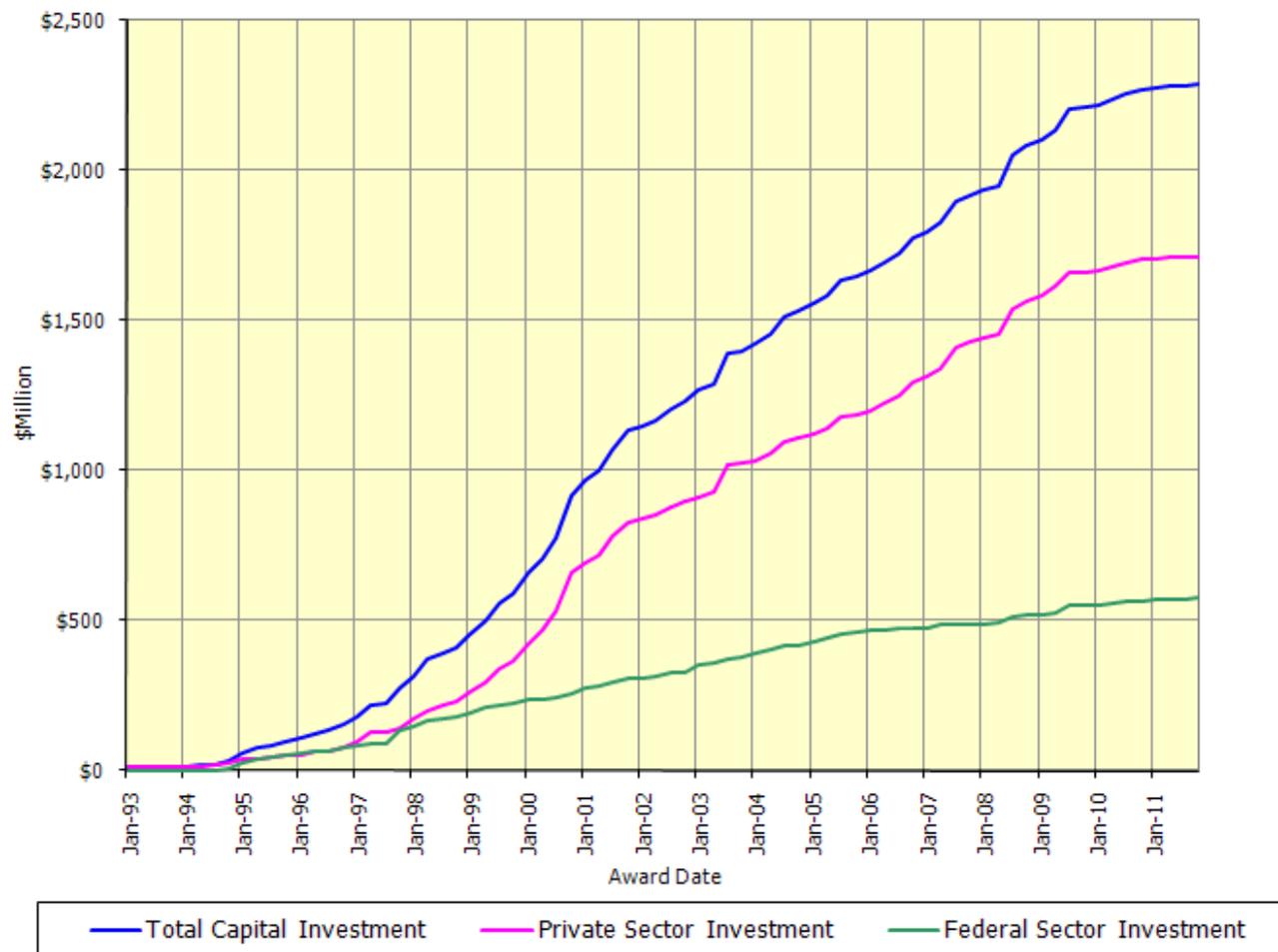
<http://www.energy.gov/news/documents/Enhance-Energy-Security-MOU.pdf>

- [Procuring Solar Energy: A Guide for Federal Facility Decision Makers](#) released in September 2010
 - Provides an overview for facility managers and procurement teams on the process of installing solar electric and solar thermal systems including:
 - Federal renewable requirements
 - Conducting a site evaluation
 - Understanding and selecting financing vehicles
 - Project Implementation
 - Resources on technology options and other tools

- Three Year, Three Phase Demonstration
 - Pearl/Hickam, HI
 - Fort Carson, CO
 - Camp Smith, HI
 - Virtual Secure Enclave component to each phase
 - \$30 – 40 million smart micro-grid technology demonstration
- Seeking Project Systems Integrator
 - RFI issued in August (already closed)
 - Draft RFP will issued Dec. (will seek comments)
 - RFP two-step process
 - Request for qualifications (short response) January 2011
 - Down select: to approx 6 to submit a full RFP March 2011
- For More Information Contact:
Harold.Sandborn@usace.army.mil

I Need Your Project Data

UESC Project Total Capital Investment
Rate of change over time



Notes:

Investment is based on projects' capital cost.
Data was last edited on 10/11/2010 and is subject to change.



Mission:

Tell the stories of America's clean energy economy, putting names and faces to the people who work on energy efficiency and renewable energy projects in the residential, commercial, industrial, and Federal sectors supported by the DOE and beyond.

DOE recognizes successes within the clean energy sector, such as:

- Improving efficiency,
- Building sustainable businesses
- Creating new jobs,
- Generating clean energy

<http://www.eereblogs.energy.gov/energyempowers>



- Launched on July 20, 2010
 - Educate the general public about DOE's activities
 - Increase transparency, engagement, and accessibility
 - <http://blog.energy.gov/>
- In addition to the blog, DOE launched
 - DOE Facebook page
 - Twitter feed
- DOE's prior social media activities include
 - Secretary's Chu's personal Facebook page,
 - DOE channel on YouTube
 - DOE Flickr account

Contracting Officer-Awards to Individuals:

Pamela Komer: DHS awarded first USCG UESC Cape May, NJ

New Jersey Natural Gas

Also Recognized in Renewable Energy/Small Groups category for
Coast Guard project in Baltimore, MD

Multiple Category-Awards to Organizations:

U.S. AF - Minot Air Force Base, ND

UESC project completed by **MDU**, Project Manager: **Chuck Miller**

Exceptional Service - Awards to Individuals

Frank Brown: DOE **BPA**, Seattle, Washington

Multiple Category-Awards to Small Groups:

DOI, FWS, Parker River National Wildlife Refuge, MA

Received MTC grant through **National Grid**

GSA Boston, Massachusetts

Received approximately \$400K in incentives from
NSTAR

Energy/ Water/Fleet, Awards to Organizations:

U.S. Marine Corps Twentynine Palms, CA

Received approximately \$170K in incentives from
SoCal Edison



EO 13514 Green House Gas Reporting Guidance

- Issued Oct 6th by White House Council on Environmental Quality (CEQ) in response to EO 13514
- Establishes requirements for calculating and reporting GHG emissions
- Defines scope 1, 2, 3 sources required to be reported
 - Allows agencies option to report additional sources
- Clarifies that some emissions may be excluded from reduction targets but must be included in agency inventories

http://www.whitehouse.gov/sites/default/files/microsites/ceq/GHG%20Guidance%20Document_0.pdf

<p>Agency responsibilities</p>	<ul style="list-style-type: none">➤ Prepare inventories for scopes 1, 2, and certain 3 emissions<ul style="list-style-type: none">• Refined 2008 baseline inventory for GHG target emissions (no penalty for proactive use of renewable energy)• 2009 GHG inventory reporting is optional (but useful)• 2010 comprehensive inventory due at the end of January• Report in native units at top-tier agency level➤ Select and deploy “bottom-up” tools and processes➤ Compile data throughout agency-wide hierarchy➤ Implement quality assurance procedures
<p>DOE/FEMP responsibilities</p>	<ul style="list-style-type: none">➤ Develop electronic reporting capability (portal) to receive data<ul style="list-style-type: none">• Embedded with CEQ TSD-consistent factors for Btu, emissions, GWPs➤ Update formulas and emission factors➤ Work with agencies and experts to evolve Guidance<ul style="list-style-type: none">• eg., leased assets, offsets, improved methodologies, etc.➤ Review submitted data and follow up to clarify inconsistencies➤ Ensure compatibility with and accommodate prior reporting requirements

- Facilities for which the agency directly pays the energy bills
 - Includes GOCOs
 - Excludes fully serviced leases (may include in future)
- Mobile Sources for which the agency purchases fuel
 - FAST Database and FEMP Annual Energy Report
- All other activities over which the agency has operational control
 - Fugitive and Process Emission
 - Specified Scope 3 Emissions

- Scope 1
 - Activity and GHG release takes place is inside OB
 - Generation of electricity, heat, cooling, steam
 - Includes methane and nitrous oxide from biomass combustion
 - Mobile Sources
 - Agency controlled cars, planes and ships etc. (leased and owned)
 - Includes methane and nitrous oxide from biofuel combustion
 - Fugitive releases
 - Process Emissions
- Scope 2
 - Activity takes place inside OB and GHG release is inside OB
 - Purchased electricity, steam, heating or cooling
 - Includes EV electricity
 - Include electric T&D losses for agency owned systems

- Include all other indirect emissions not in scope 2
- Agency required reporting limited to
 - Employee business travel
 - Employee commuting
 - Contracted waste disposal
 - Contracted waste water treatment
 - T&D Losses from utility owned systems
- Agency may voluntarily report other scope 3 emissions
- Additional Scope 3 requirements may be added in the future

- Agencies may reduce their GHG emissions by acquiring RECs by producing or purchasing electricity, heat or steam from renewable sources.
- Whatever acquisition method is used RECs **must be retained by agency to make GHG reduction claim from renewable energy projects for scope 1 & 2.**
- RECs retained must include all attributes including GHG benefits.
- On-site renewable energy projects where Agency does not retain REC – emission reductions maybe reportable under scope 3 (EUL/PPA)

- Sec 3.4 Enteric Fermentation
- Defined

“Fermentation that occurs in digestive systems of ruminant animals (think cows) that have a large “fore-stomach” or rumen in which microbial fermentation breaks down food into soluble products”

- Fortunately reporting on this Scope 1 or 3 emission source is currently not required
- Sec 3.6 Manure Management
 - This for livestock operations (not human that’s another section)
 - Fortunately reporting on this Scope 1 or 3 emission source is also currently not required
 - The first Federal Manure Management Guidance I have received
- **Couldn’t resist the opportunity**

- FEMP released the consolidated Annual GHG and Sustainability Data Reporting Tool on October 6th
- Includes the energy efficiency and renewable electricity reporting requirements of previous years
- Adds the capability to report on scope 1, 2, and 3 GHG emissions
- GHG reporting is done via the GHG Reporting Portal on FedCenter.gov

http://www.fedcenter.gov/Bookmarks/index.cfm?id=16389&pge_id=1606



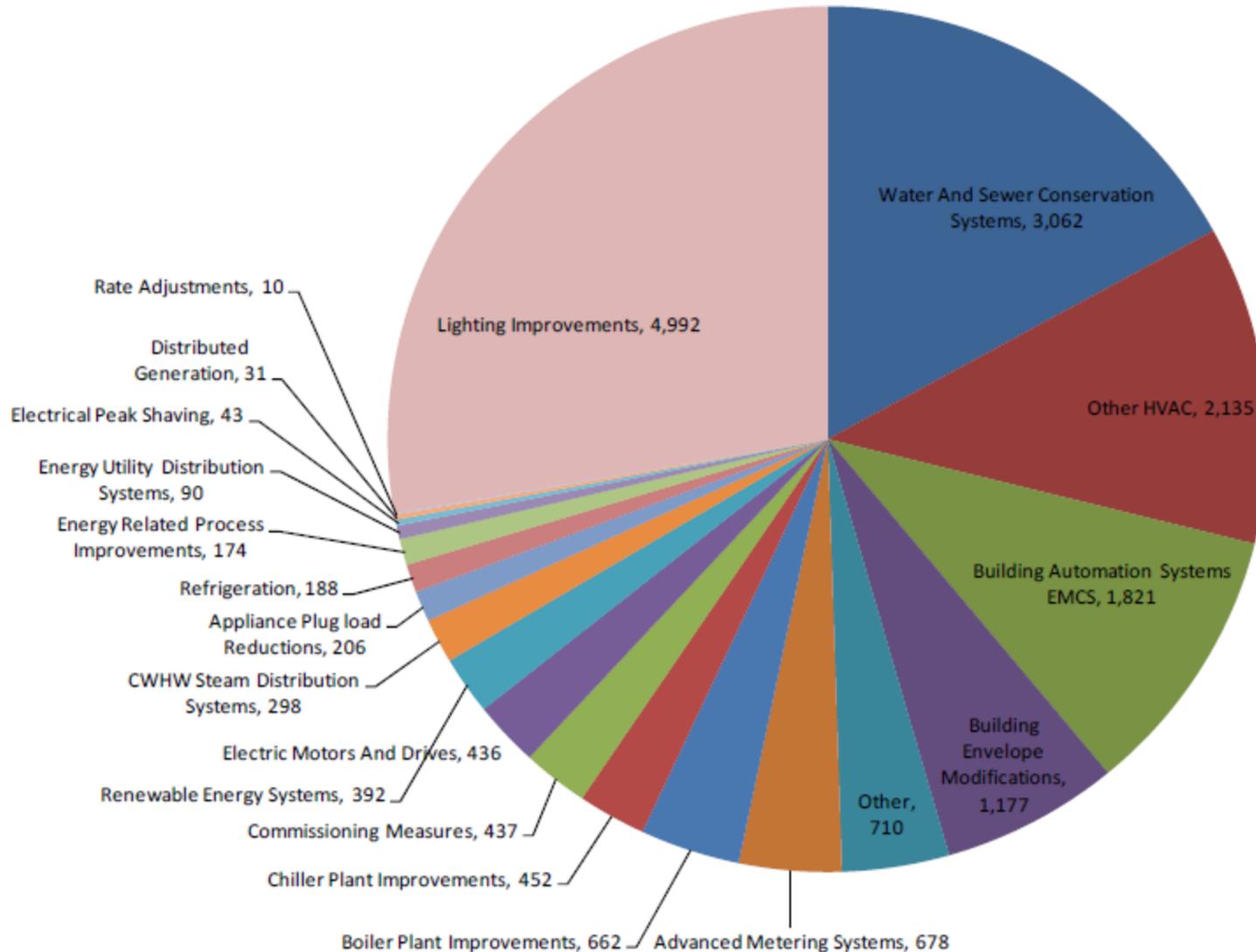
EISA Section 432 Update

- Web-based tracking system still under development
 - Pre-populated with data from 2009 and 2010 agency reporting
 - Deployed for agency use: July 2010
 - Continue additional module development through end of year
 - Agency technical working group meetings bi-weekly
- Guidance development and system enhancements will continue through end of year
 - Tracking implemented projects
 - Project follow-up, M&V for persistence of savings
 - Link to benchmarking metrics

EISA 432: Covered Facilities Identified (July 2010)

- Agencies identified 4110 covered facilities:
 - Many are multi-building Installations
- Covered facilities used 321 trillion Btu
 - 83% of facility energy use (Target: 75%)
- Covered facilities have 2.8 billion square feet
 - 88% of facility square footage (total 3.2 billion)
- Energy intensity of covered facilities
 - 115,000 Btu/square foot
- Agencies have reported audits at 1929 (38%) facilities
- Audited facilities used 111 trillion BTUs (34.6%)

Mix of 17,994 Identified Potential ECMs (Preliminary Data)



Subsequent reporting of project data via Web-based Tracking System will include

- Status of Project
 - Project Approval, Contract Award, Project Acceptance, or Canceled
- ECMs Deployed
- Project Funding Sources
 - Direct, UESC, ESPC, EUL, PPA
- Follow-up on Implemented Projects
 - M&V required verify persistence of savings
 - Projected Savings versus Actual Savings

- GovEnergy 2010 - 4,338 Total Registration
 - 15 Tracks /128 individual training sessions
 - New Tracks:
 - Greenhouse Gases
 - Human Behavior
 - More than 250 exhibitors
- GovEnergy 2011 Planning – starting now
 - Need session ideas
 - Exhibit Hall is already over 50% sold

www.govenergy.gov



SAVE THE DATE!

GovEnergy 2011 - August 7-10
Duke Energy Convention Center
Cincinnati, Ohio

FUPWG Spring 2011

Hosted by:



April 20-21, 2011

**Portland Marriott Downtown Waterfront
Portland, Oregon**

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