



**GovEnergy**

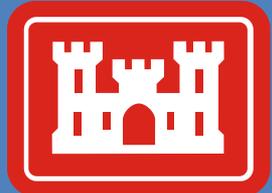
[www.govenergy.gov](http://www.govenergy.gov)

The Premier Energy Training Workshop  
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**A River of Energy Solutions**

# Session 4 Project Identification: Let's Get Started

John Coho, HQ USACE, Civil Works Operations



# Project Identification Steps

- Organize
- Measure now, measure again, and again
- Benchmarking
- Know your goals
- Prioritize projects to meet the goals
- Organizational support of the goals and the projects
- Fiscal planning for meeting the goals

# USACE Organizational Framework

## 2 Lines of Operation

1. Internal Operations and Infrastructure
  - Ensure USACE shows substantial progress towards federal sustainability goals and targets within its internal operations and infrastructure.
2. Service to Customers - Improve USACE's ability to support its customers in meeting their sustainability goals and targets.



<http://www.usace.army.mil/sustainability>

# USACE Missions

## Military Programs

- Military Construction
- Base Operations
- Environmental Restoration
- Geospatial Engineering

Camp Bondsteel, Kosovo, Oct 1999



## Homeland Security



- Critical Infrastructure
- Antiterrorism Planner
- The Infrastructure Security Partnership

## Interagency and International

## Support

Federal  
State  
Local  
International



## Research & Development

- Military Engineering
- Terrain & Geospatial
- Structures
- Environment
- Water Resources



## Civil Works



- Navigation, Hydropower
- Flood Control, Shore Protection
- Water Supply, Regulatory
- Recreation, Disaster Response
- Environmental Restoration

## Real Estate

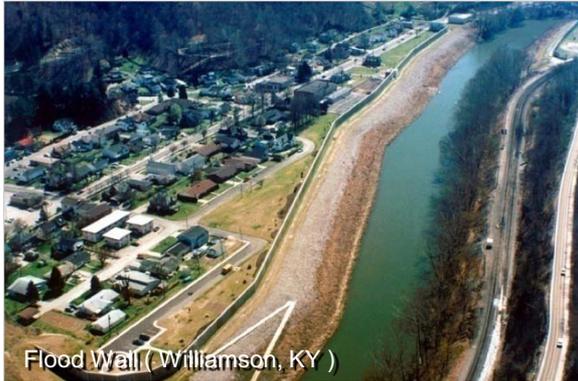
- Acquire, Manage, and Dispose
- DOD Recruiting Facilities
- Contingency Operations



# USACE Civil Works Program



Lock and Dam 15 ( Mississippi River )



Flood Wall ( Williamson, KY )



Libby Dam, MT

Deliver enduring, comprehensive, sustainable, and integrated solutions to the Nation's water resources and related challenges through collaboration with our stakeholders: Regions, States, localities, Tribes, and other Federal agencies.

- Flood Risk Management,
- Navigation
- Ecosystem Restoration & Infrastructure
- Recreation & Natural Resource Management
- Hydropower
- Regulatory Program: Wetlands & Waterways
- Disaster Preparedness & Response
- Water Supply



Dredge ESSAYONS ( Coos Bay, OR )



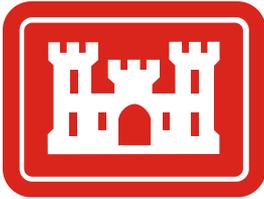
Lake Seminole ( Mobile District )



Bonneville II Powerhouse ( Washington )

# Background on USACE Implementation of FEMP

- Late start: 2010
- Authorized to report as a separate agency for requirements of EO13514
- Current approach spans 590 “reporting” USACE facilities:
  - Civil Works (579)
  - Logistics (7)
  - Research and Development (3)
  - Washington Aqueduct (1)
- Systematic approach: EMS; continual improvement



**U.S. Army  
Corps of  
Engineers**

**FY2010 OMB Scorecard on  
Sustainability/Energy**

	<b>Scope 1&amp;2 GHG Emission Reduction Target</b> Submitted comprehensive inventory as 2008 baseline for Scope 1&2 GHG Reduction Target of 23.1% by 2020 <sup>1</sup>		<b>23%</b>
	<b>Scope 3 GHG Emission Reduction Target</b> Submitted comprehensive inventory as 2008 baseline for Scope 3 GHG Reduction Target of 5% by 2020 <sup>1</sup>		<b>5%</b>
	<b>Reduction in Energy Intensity</b> To be determined		<b>30%</b>
	<b>Use of Renewable Energy</b> Use of renewable energy as a percent of facility electricity use: 1.6%		<b>7-1/2%</b>
	<b>Reduction in Potable Water Intensity</b> To be determined		<b>26%</b>
	<b>Reduction in Fleet Petroleum Use</b> Reduction in fleet petroleum use compared to 2005: 14.7% increase and not on track		<b>20%</b>
	<b>Green Buildings</b> Sustainable green buildings: 0.00% of buildings sustainable 0.00% GSF of inventory sustainable		<b>15%</b>

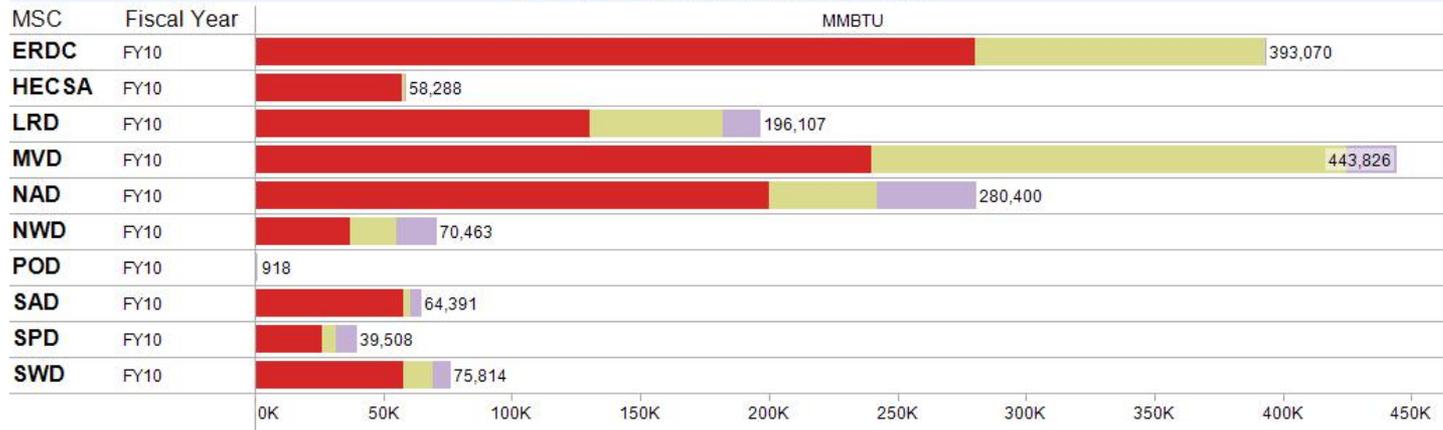
# USACE Initial Priorities (2010)

- Leadership support – USA approval to report separately
- Governance – Strategic Sustainability Committee
  - Engaging the chain of command
- Building the team – Team spanning MP/CW/R&D
- Federal requirements – Execute (on-time)
- Legacy data/systems – Mining for baseline data
- Energy & water evaluations – “Categories” of facilities
- Provide guidance and tools –
  - Boil-down requirements; simplify Federal tools
  - Support budget integration
- Identify and fill data gaps – FEMP/GHG report

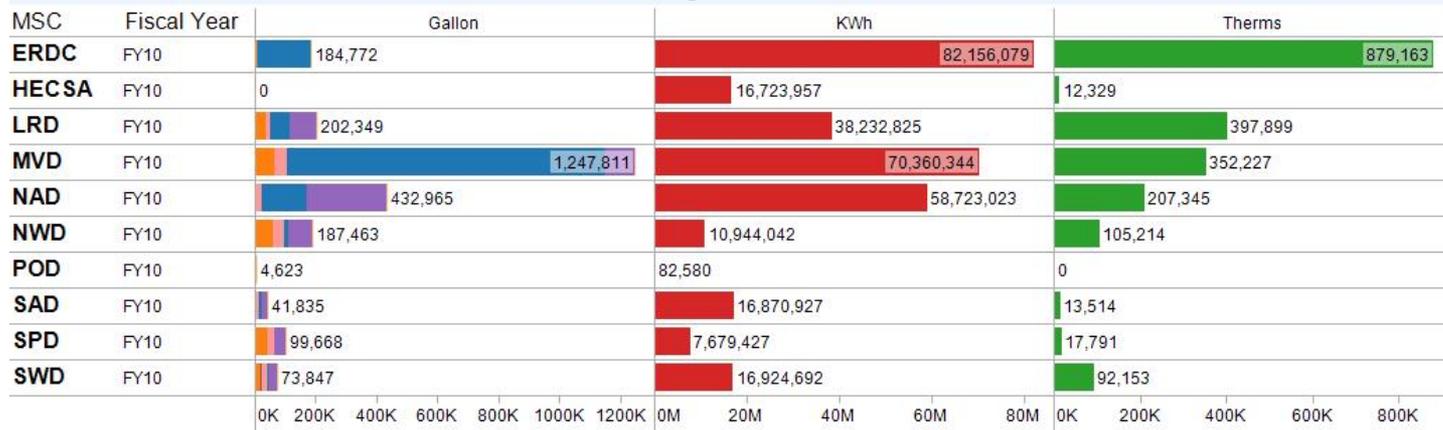
# USACE Energy Consumption

## Energy and Water Consumption

Energy or Water Consumption by Category



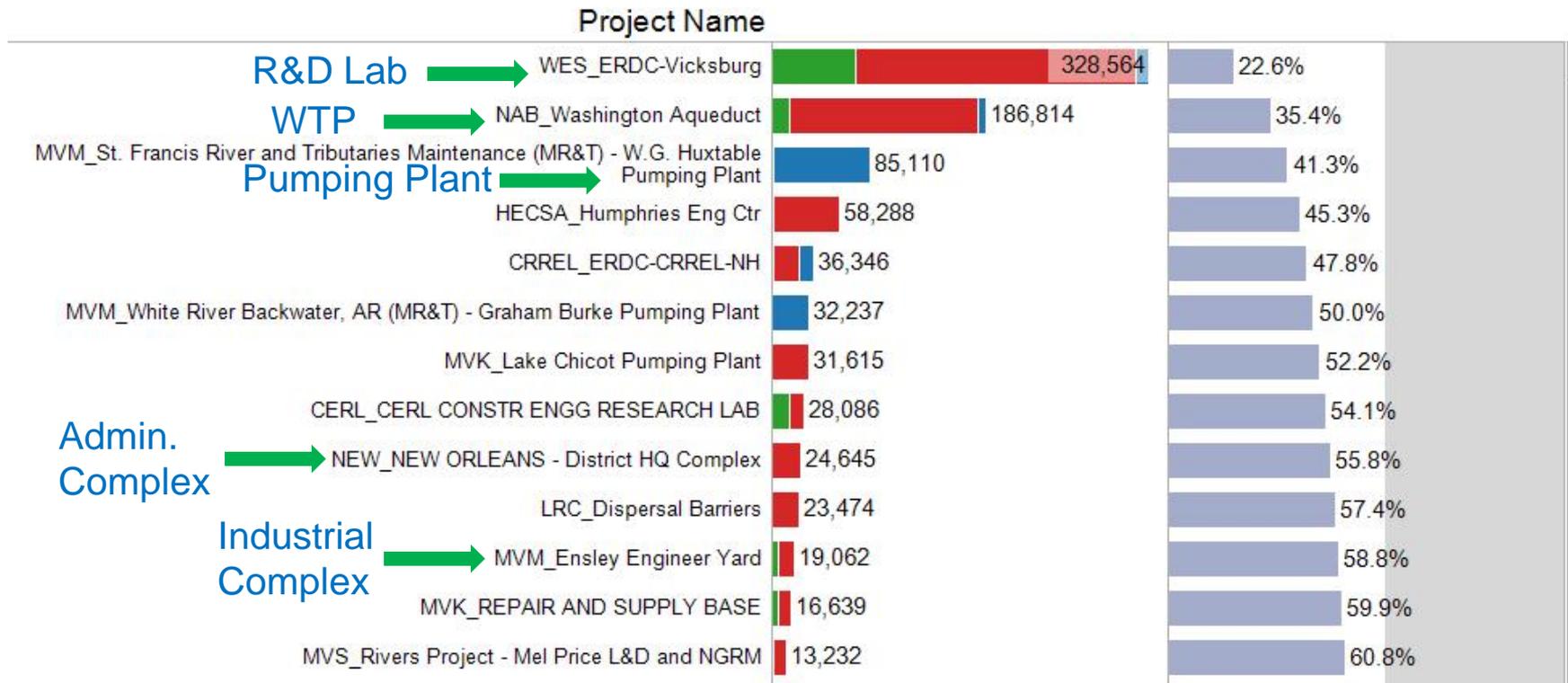
Fuel Usage in Native Units



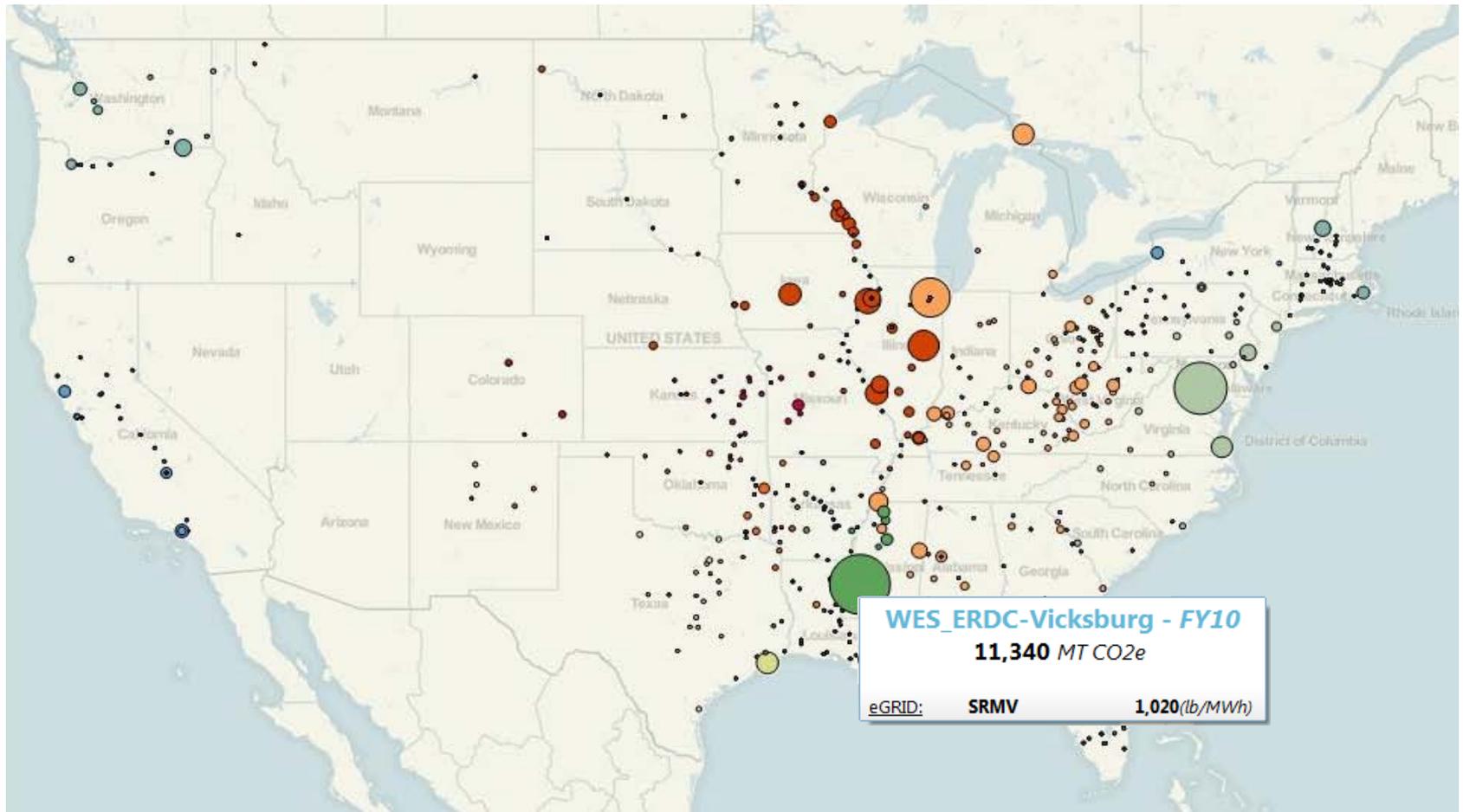
# Categories of USACE Facilities

## Stationary Energy Consumption by Project - FY10

Several Projects Excluded - See Caption



# USACE MTCO<sub>2</sub>e Emissions by eGRID Region Goal Subject Facility Electricity



# Getting Started at the Agency Level: Fundamental Lessons Learned

- Establish **leadership** support
- Establish **governance**
  - Authority, chain of command, management review
  - Accountability
  - Measurement
- Take a **teamwork** approach that spans the organization
- Use **existing business processes**, data and systems
- Develop high-level **strategy, policy and goals**
- **Engage and enable the field**
  - Understand and communicate **requirements, status, progress**
  - Provide implementing **tools, training, guidance**

# Looking Ahead

- Enabling progress on energy and water efficiency in FY12/13
  - Appropriated funds vs. UESC / ESPC
  - Pros and cons?
  - EISA 432 requirements (evaluations, metering, commissioning, etc.)
- USACE Resource Efficiency Investment Strategy
  - Categories of facilities
  - Funding options
  - Return on investment

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