



# ***Sustainability From Good to Great***

***Karen J. Baker,  
Chief, Plans Division  
Strategy and Integration Directorate  
US Army Corps of Engineers***

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of Engineers®

## **A Sustainable Army**

*"Then I say, the earth belongs to each of these generations during its course, fully and in its own right. The second generation receives it clear of the debts and encumbrances of the first, the third of the second, and so on. For if the first could charge it with a debt, then the earth would belong to the dead and not to the living generation. Then, no generation can contract debts greater than may be paid during the course of its own existence."*

**– Thomas Jefferson, 1789**

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- USACE's Strategic Contribution**
- US Army Corps of Engineers
- Partnered with DA to write Army Strategy for Environment
  - Major Contributor and Tester for Army Public Involvement Tool Box
  - Provided Objective 10 for Draft Strategic Plan for Army Sustainability
  - Established Center for the Advancement of Sustainability Innovations (CASI) at ERDC
- TEAM USACE**
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# The World of the Chief of Engineers Three Roles

Chief of Engineers



ARSTAF, Engineer



Commander, USACE



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# Chief's Various "Hats"

## Title 10, USC

- Chief of Branch
- Economy-like authorities
- **DoD Construction Agent**

## AFAR 5141 (DA Power Procurement Officer)

- Purchase and sale of utility services
- Utility service transaction/contract policies, engineering, rates, & legal sufficiency determination

## General Order 3

- **ARSTAF Responsibilities:**
  - Policy for acquisition, title, granting use, and disposal of **real property**
  - Engineer/facilities portions of contingency plans & base support development
  - Prime Power Program
  - Real Estate Relocation Program
  - Commercial Utilities Program
  - **Execution of Military Construction** (Army)
- **Technical advice/assistance to ARSTAF:**
  - Force structure development
  - **Joint and Army doctrine**
  - Force modernization & mobilization
  - Intelligence
  - Contingency Planning
  - Facilities standards
  - **Research**
- **DoD Executive Agent:**
  - Defense National Relocation Program

## AR 10-87

- Manage/execute engineering, construction, & **real estate** programs for Army
- Manage/execute **installation support** programs
- Maintain capability to respond to national security & domestic emergencies
- Perform non-system **R&D**
- Develop technology to design/construct space facilities
- Manage/execute **HTRW** clean-up programs
- Manage Support for Others Program
- Manage/execute DERP; DoD Executive Agent for FUDS
- Supervise/coordinate engineering services to **security assistance** programs

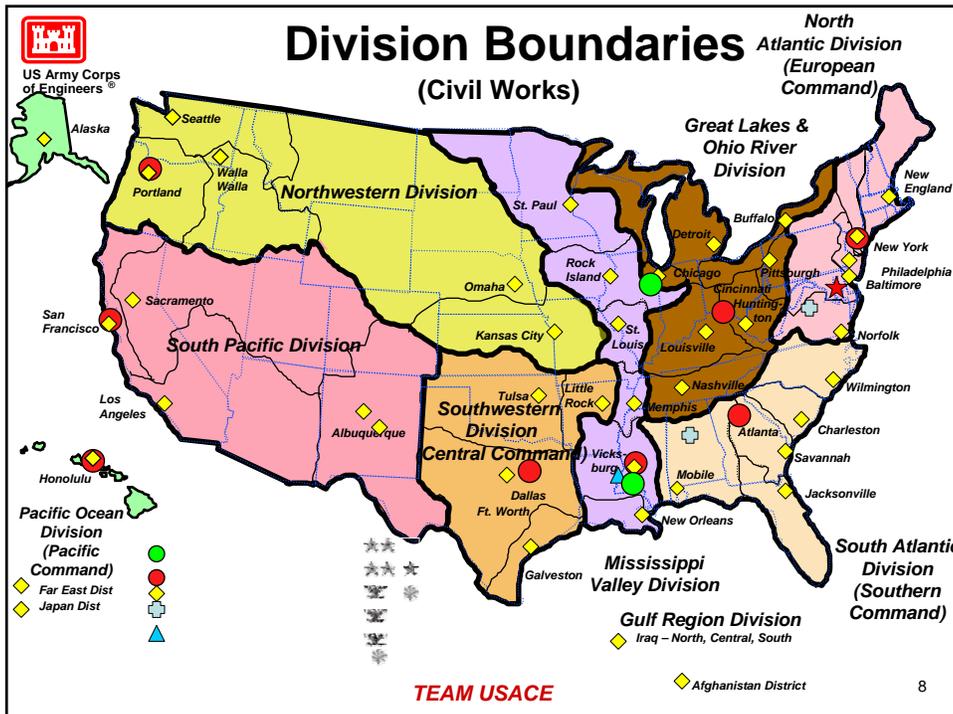
## AR 115-11 (Geospatial Information and Services)

- Assist all Army users in acquiring and exploiting spectral imagery for operational requirements
- Coordinate and manage technical aspects of emerging **Geospatial** requirements, prototype products, and evolving concepts
- Collect, manage, and disseminate geospatial materials required to support Army users worldwide

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# The Army Corps of Engineers



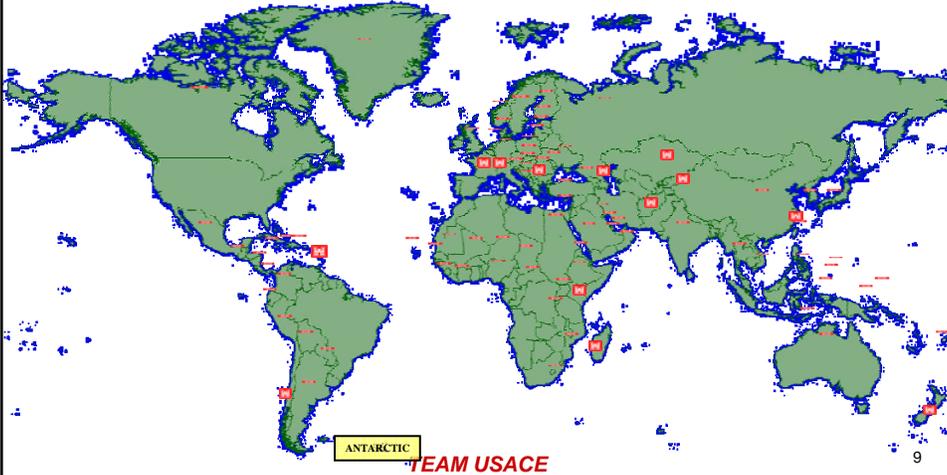


# USACE Around the World

## Global Engagement

- Engagement - 100+ Countries
- Physical Presence - 33 Countries

ARCTIC



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## Support to the Army and Nation

### Major Military Programs

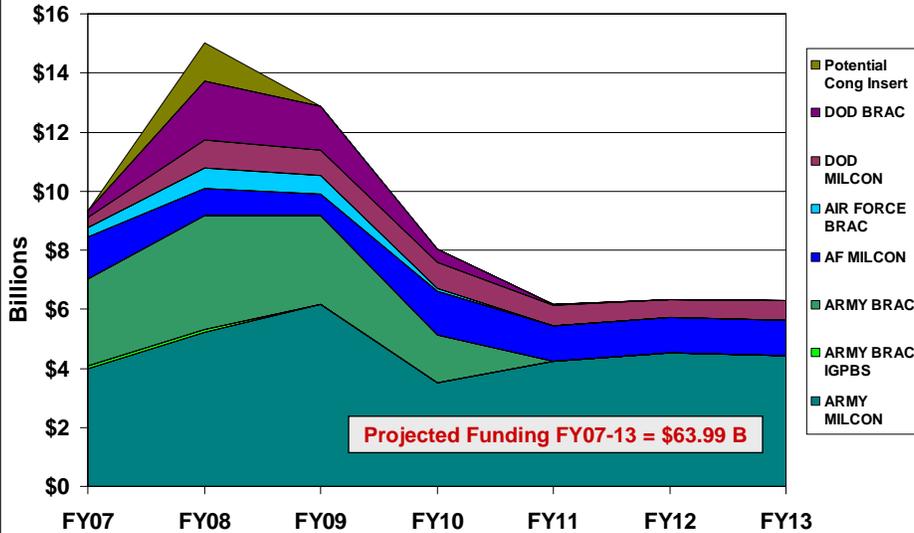


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## USACE Challenge: Execute \$63.99 B of MILCON Requirements (FY07-13)



Updated 2007.10.10

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## LEED TRAINING

- USACE is the first Federal agency to bulk purchase a block of web based training module for designers and architects from USGBC. That enabled us to train 100 people in application of LEED.
- Advising USGBC in its efforts to convert training to web based environment.
- Seeking funds to train districts especially in light of multi building projects and coordination between CoS and geographical districts.

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## USACE Implementation

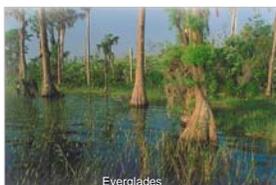
- Engineering and Construction Bulletin (ECB) 2006-02 Requires:
  - Establish goals at planning charrettes
  - Refine and report LEED levels in P2 at 4 designated stages.
  - Self-certify final ratings jointly by the DPW or the Reserve Component equivalent, USACE district, designer, CoS and contractor.

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## Civil Works Program Missions



- Navigation
- Hydropower
- Flood Risk Management
- Ecosystem Restoration
- Water Supply
- Regulatory (Wetlands / US Waters )
- Recreation
- Disaster Preparedness & Response



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## USACE Hydropower



**Owns and Operates 24 percent of U.S. Hydropower capacity,  
or 3 percent of the total U.S. electric capacity**

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## ERDC

### Center for Advancement of Sustainable Innovations (CASI)

**Purpose:** To provide capabilities (expertise, tools, knowledge resources and services) to address U.S. Army, Department of Defense and national sustainability challenges.



**Partners include:**

- The Center for Sustainable Design at the University of Illinois
- The National Defense Center for Environmental Excellence
- The National Renewable Energy Laboratory
- The Corps of Engineers Huntsville Engineering Center

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## The Way Ahead

- Use sustainability as an “integrator” across Military Programs, Civil Works and R&D
- Incorporate sustainable practices into strategic plans and policy
- Significant move toward watershed/ecosystem approaches
- Beyond sustainability – resiliency, enduring

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