

# US Army Corps of Engineers *Military Programs*

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*Engineering and Construction Branch*  
*US Army Corps of Engineers*  
*March 31, 2011*



US Army Corps of Engineers  
**BUILDING STRONG**®



# USACE Military Missions



Community Hospital, FT Belvoir, VA



FORSCOM HQ, Fort Bragg, NC

BRAC 133 Mark Center, Arlington, VA



National Geospatial Center, FT Belvoir, VA

- Military Construction
- Base Realignment and Closure (BRAC)
- Overseas Contingency Operations (OCO)
- Installation Support
- Environmental
- Energy and Sustainability
- Interagency Support
- International Services
- Real Estate Services
- COCOM Support
- Research and Development
- Geospatial Support



Children's Hospital, Basara, Iraq



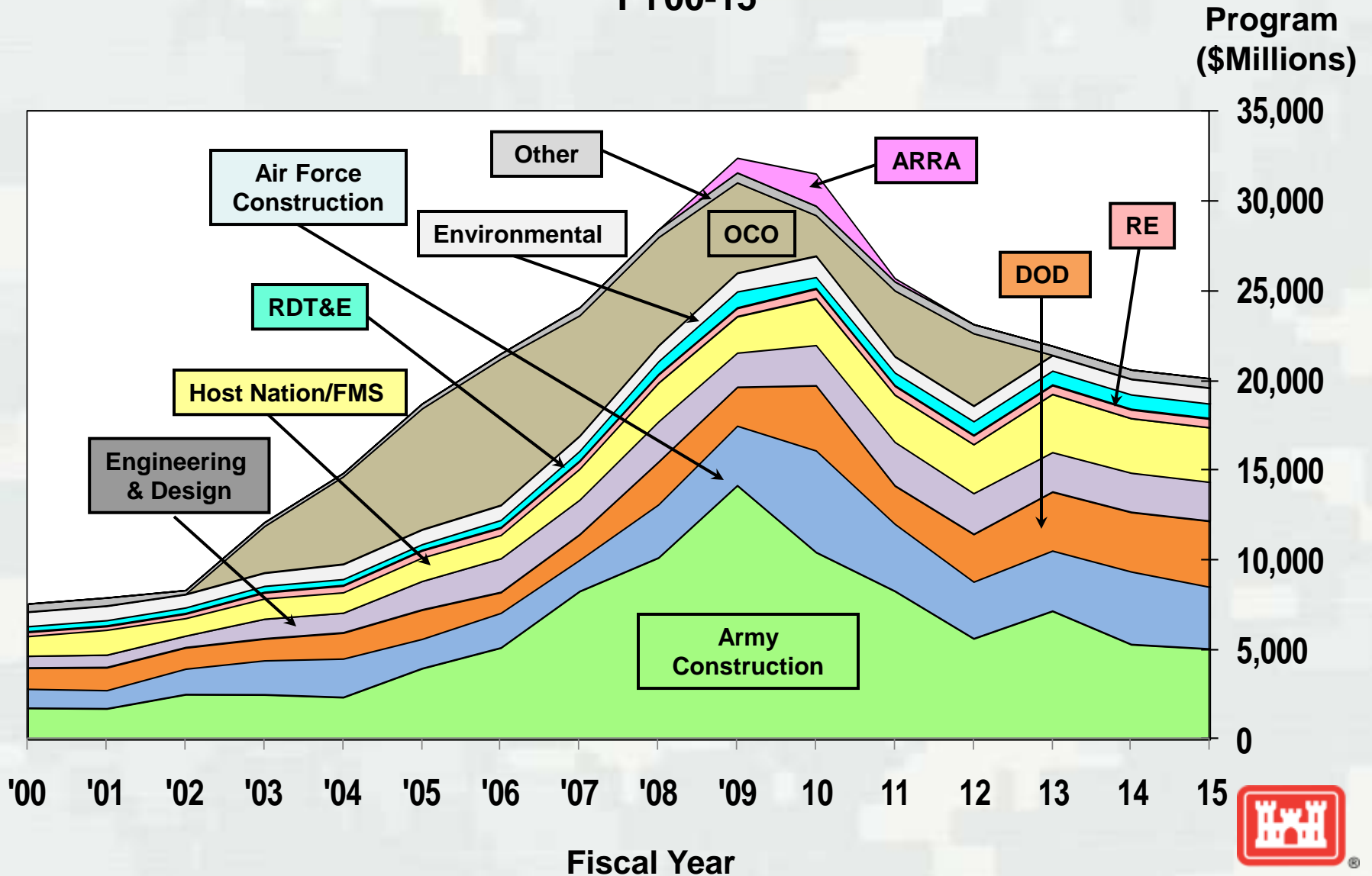
Border Fence, Imperial Sand Dunes, CA



Kabul Road, Bagram, Afghanistan

# Military Missions Program Trends

FY00-15

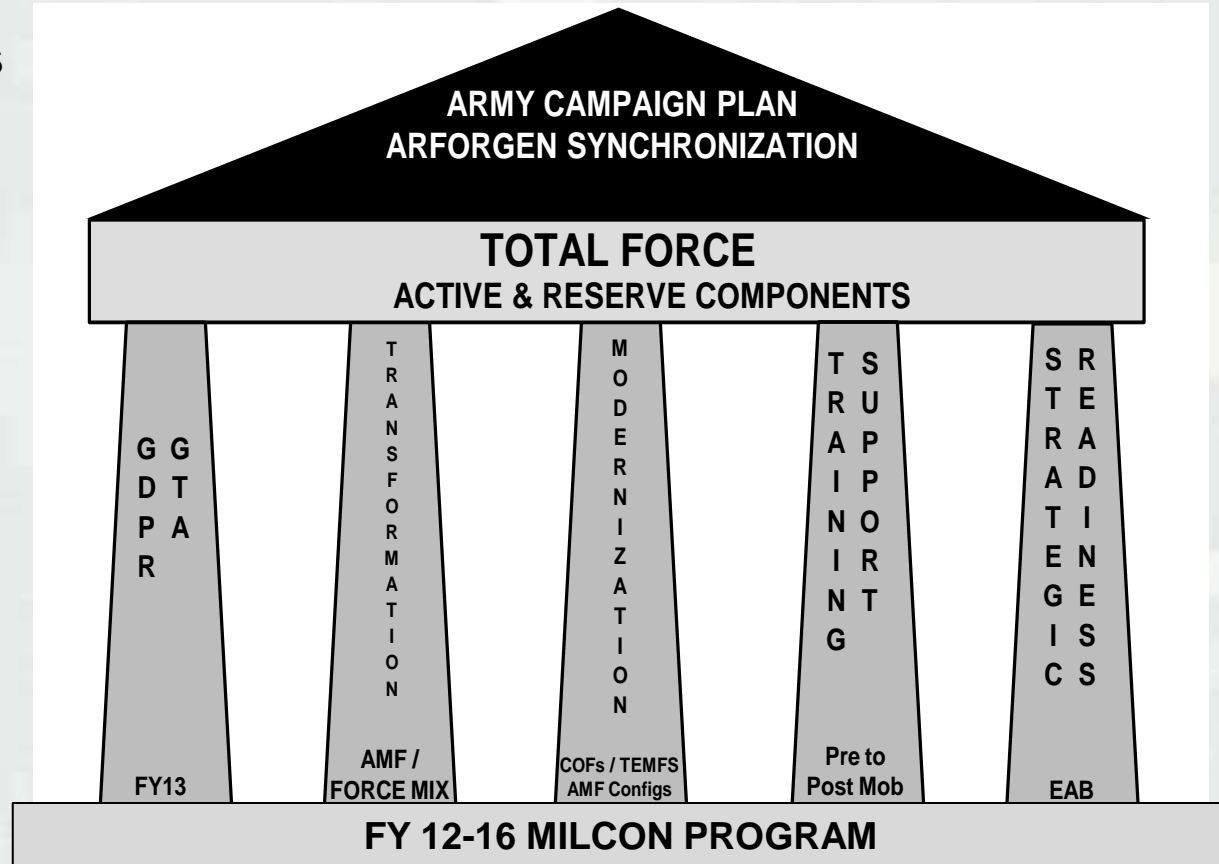


# FY12 MILCON Overview

## Pillars of Priorities

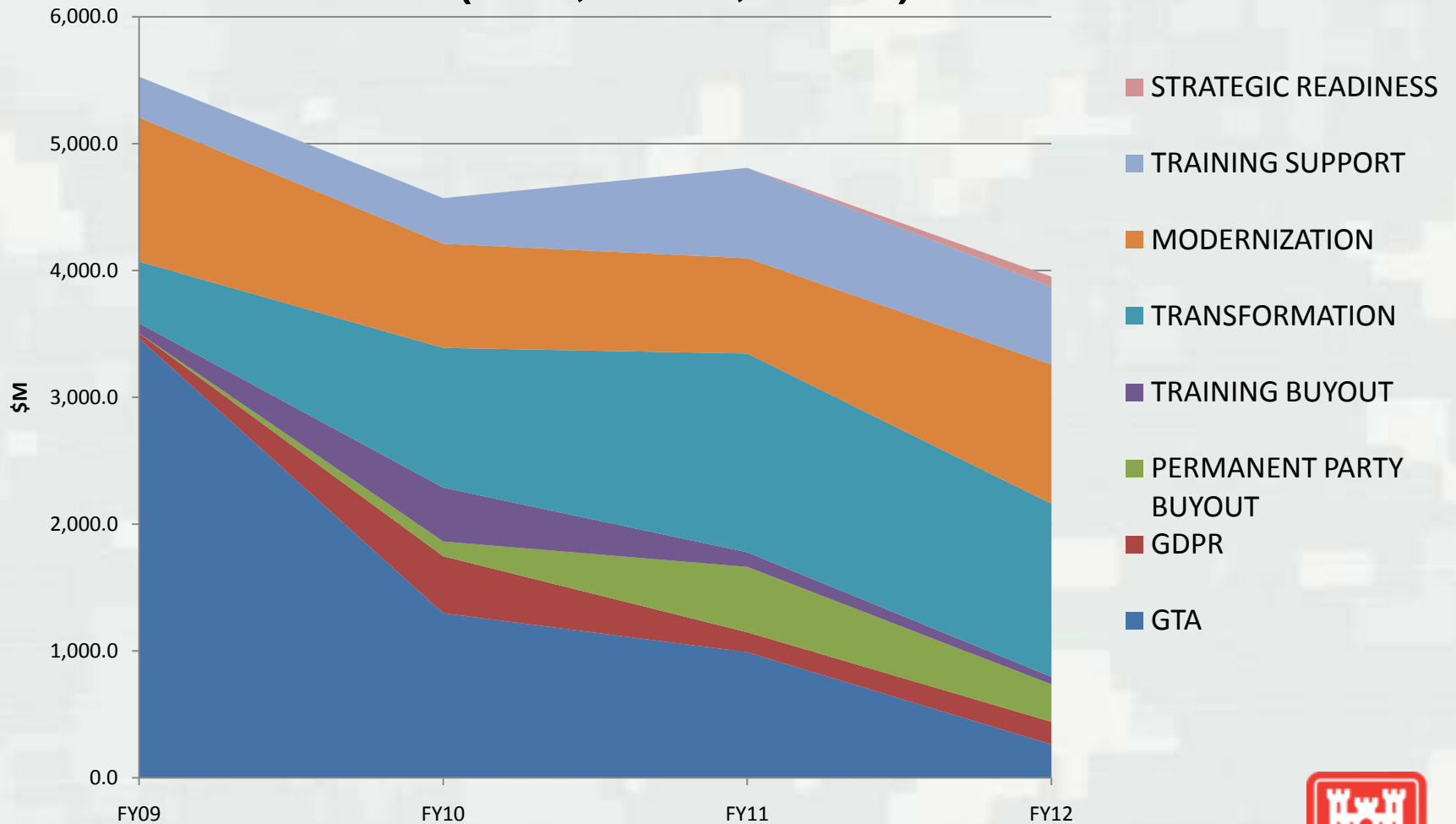
### Army Leadership Priorities

- Develop and Care for Soldiers and their Families
- Grow the Army (GTA)
- Global Defense Posture Realignment (GDPR)
- Army Modular Force (AMF)
- Modernization of Legacy Facilities
- Training Support
- Strategic Readiness
- Energy and Sustainability



# Army MILCON Overview

## Facilities Investment in Army Priorities (MCA, MCAR, MCNG)



# MILCON Overview

- FY 11: \$10.3B program for Army, AF, and DOD (including FY10 & Prior Carryover & FY10 Supplemental)

## **MILCON**

- Army – 233 projects / \$5.0B
- OCO & FY10 Supplemental – 75 projects / \$1.6B
- Air Force – 72 projects / \$1.2B
- DOD – 69 projects / \$2.2B
- Energy Conservation Investment Program– 29 projects / \$0.1B
- BRAC
- FY 10 Carryover – 4 projects / \$127M

- FY 12: \$7.0B program for Army, AF and DOD

## **MILCON FY12:**

- Army – 129 projects / \$3.4B
- Air Force – 43 projects / \$1.0B
- DOD – 61 projects / \$1.9B
- Energy Conservation Investment Program– 18 projects / \$45M



# FY12 MILCON Budget - MCA

**Total Requirement (MCA): \$7,629M**

**Remaining Requirement: \$44.7M**

- **\$698M in the FY11 NDAA**

**The FY12 MCA request supports :**

- **2 operational facilities**                    **\$138.0M**
- **1 trainee barracks**                        **\$ 23.0M**
- **1 operational support facility**   **\$ 3.6M**
- Total**                                        **\$163.6M**

## Grow the Army



Ft. Jackson, SC

AK Fort Richardson	Brigade Complex, Ph 2	\$74.0M
AK Fort Richardson	Organizational Parking	\$3.6M
GA Fort Benning	Trainee Barracks Ph 3	\$23.0M
MD Aberdeen Proving Ground	Command Control Facility	\$64.0M



# FY12 MILCON Budget - MCA

## Army Restationing

Total Requirement (MCA): \$1,126.8M

Remaining Requirement: \$170.6M

- \$156.7M in the FY11 NDAA



**Before:** Burn Pit for Solid Waste Disposal, Afghanistan

FY12 MCA request will provide:

AF Bagram, AB	Entry Control Point	\$20M
AF Bagram, AB	Utility Drainage System	\$31M
AF Bagram, AB	Barracks, Phase V	\$29M
MO Fort Leonard Wood	Vehicle Maintenance	\$49M
NC Fort Bragg	Brigade Complex Facilities	\$49M
<b>Total</b>		<b>\$178M</b>



**After:** Solid Waste Management facility, Afghanistan



# FY12 MILCON Budget - MCA

**Total Requirement: \$13,756M**

**Remaining Requirement: \$7,340M**

- **\$1,886M in the FY11 NDAA**

**FY12 MCA request supports:**

<b>18</b>	<b>ERMP, CAB, JLENS, THAAD</b>	<b>\$639M</b>
<b>16</b>	<b>Army Modular Force</b>	<b>\$526M</b>
<b>1</b>	<b>Trainee Barracks</b>	<b>\$59M</b>
<b>8</b>	<b>Permanent Party Barracks</b>	<b><u>\$296M</u></b>
	<b>Total</b>	<b>\$1,520M</b>

**FY12 MCA request for facilities at:**

- |                 |                |                     |                      |                                |
|-----------------|----------------|---------------------|----------------------|--------------------------------|
| • Fort Bliss    | • Fort Drum    | • Fort Riley        | • JB Lewis McChord   | • Camp Carroll, KO             |
| • Fort Bragg    | • Fort Hood    | • Fort Sill         | • Schofield Barracks | • Camp Henry, KO               |
| • Fort Campbell | • Fort Jackson | • Fort Wainwright   | • Grafenwoehr, GE    | • Honduras (Various Locations) |
| • Fort Carson   | • Fort Polk    | • JB Langley-Eustis | • Landstuhl, GE      |                                |

## Transformation



**UEPH Barracks, Fort, Hood, TX**



# FY12 MILCON Budget - MCA

## Remaining Requirements - Ongoing Recapitalization Investment

- Improve our installations and facilities to ensure Army is deployable, trained, and ready to respond to meet its National Security mission.

### The FY12 MCA request supports:

12 Operational facilities	\$ 257.9M
11 Operational support facilities	\$ 320.5M
7 Quality of life facilities	<u>\$ 106.4M</u>
<b>Total</b>	<b>\$684.8M</b>

### FY12 MCA request will recapitalize facilities at:

- Fort Belvoir
- Fort Bliss
- Fort Bragg
- Fort Campbell
- Fort Carson
- Fort Knox
- Fort Lewis
- Fort Meade
- Fort Polk
- Fort Rucker
- Fort Shafter
- Fort Sill

## Modernization



Dining Facility, Fort Lee, VA



# FY12 MILCON Budget - MCA

## Training Support

### Remaining Requirement – Ongoing Investment in Modernization and Recapitalization:

- Ranges and Training facilities to accommodate and adapt to ever-changing weapons systems, communication systems and battlefield techniques
- Consistent MILCON investment stream

### FY12 MCA request supports:

9	Army Ranges	\$ 79.9M
3	Land Acquisitions	\$ 57.1M
2	Army Training Facilities (i.e. Battle Command Training Centers)	\$ 46.0M
2	Operational Readiness Training	\$ 79.0M
2	Soldier Training Facilities	<u>\$ 78.0M</u>
	<b>Total</b>	<b>\$340.0M</b>



National Training Center, Fort Irwin, CA

### FY12 MCA request will Recapitalize facilities at:

- Fort Benning
- Fort Bragg
- Fort Campbell
- Fort Gordon
- Grafenwoehr
- Fort Hood
- Fort Irwin
- Fort Jackson
- Fort Knox
- Fort Meade
- Oberdachstetten
- Fort Polk
- Fort Sill
- JB Lewis-McChord



# Strategic Readiness

## Remaining Requirement – Ongoing Investment in Modernization and Recapitalization:

- Recapitalizes aged and obsolete facilities to accommodate and adopt modern industrial production operations supporting changing Army equipment and materiel
- Funds most critical requirements first

## FY12 Budget Request supports:

5 Transportation Infrastructure Projects	<b>\$30.3M</b>
1 Industrial Base Facility	<b><u>\$44.0M</u></b>
<b>Total</b>	<b><u>\$74.3M</u></b>

## Recapitalize facilities at:

- Fort Benning
- Red River Army Depot
- Forbes Airfield
- Fort Sill
- McAlester AAP



Hawthorne Army Depot, NV



Sierra Army Depot , CA



# FY12 Military Construction Army Reserve (MCAR)

- Modernization
- Training Support
- Strategic Readiness



Armed Forces Reserve Center, Ceiba, PR



# FY12 MILCON - M CAR

- **11 Operations Complexes: \$216M**

**Modernization**

- 10 States
- **Facility Types:**
  - Operational
  - Maintenance
  - Storage
- **113 Unit**
- **Over 4,389 Soldiers**
  - Engineer
  - Quartermaster
  - Transportation
  - Military Police



Pelham Range, AL



# FY12 MILCON - M CAR

## Modernization



Bristol, PA



Omaha, NE

PN	Project Description	Location	ST	PA (\$M)
67658	Army Reserve Center/Land	Ft Collins	CO	13.6
67664	Army Reserve Center/Land	Rockford	IL	12.8
67713	Army Reserve Center	Homewood	IL	16.0
67673	Armed Forces Reserve Center	Ft Benjamin Harrison	IN	57.0
67681	Army Reserve Center/Land	Kansas City	KS	13.0
67709	Army Reserve Center/Land	Attleboro	MA	22.0
67674	Army Reserve Center	St Joseph	MN	11.8
67581	Army Reserve Center	St Charles	MO	19.0
67466	Army Reserve Center/Land	Greensboro	NC	19.0
67691	Army Reserve Center	Schenectady	NY	20.0
67672	Army Reserve Center/Land	Orangeburg	SC	12.0



# FY12 MILCON - M CAR

## Training Support / Strategic Readiness

<b>PN No.</b>	<b>Project Description</b>	<b>Location</b>	<b>ST</b>	<b>PA (\$M)</b>
74310	NCOA Phase III - Billeting	Fort McCoy	WI	12.0
67720	Modified Record Fire Known Distance Range	Fort McCoy	WI	5.4
71702	Automated Multipurpose Machine Gun (MPMG)	Ft Hunter Liggett	CA	5.2
72264	Automated Record Fire Range	Fort McCoy	WI	4.6
67684	Container Loading Facility	Fort McCoy	WI	5.3



Fargo, ND

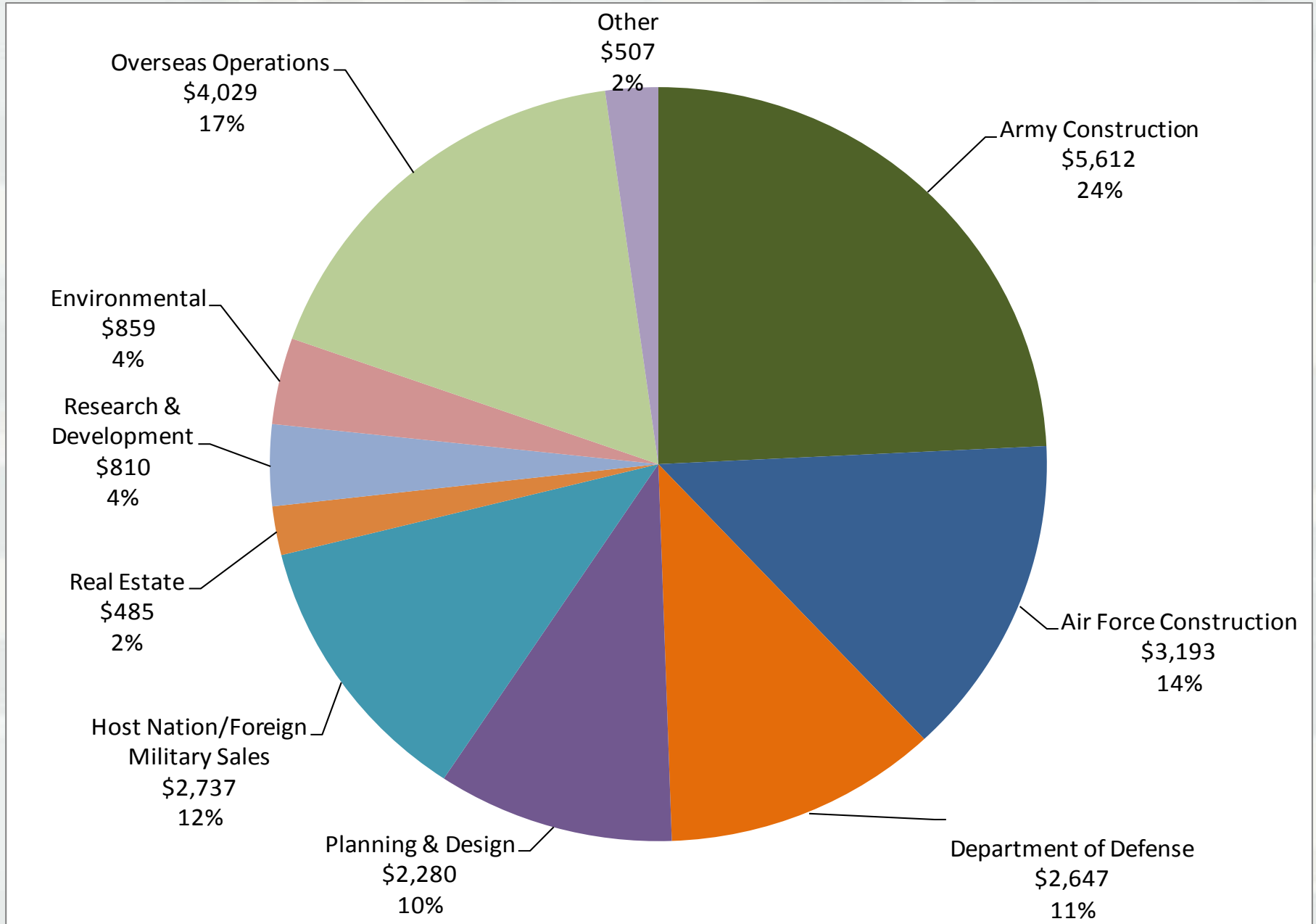


Letterkenny, PA



# FY12 Military Program - \$23B

(\$M)



# FY12 MILCON Overview

- FY12 Budget Overview Document can be found at:
  - <http://comptroller.defense.gov/Budget2012.html>
  - Links to Budget Materials: US Army Budget Documentation, US Air Force Budget Documentation, and Defense Wide Budget Documentation
    - <http://asafm.army.mil/Documents/OfficeDocuments/Budget/BudgetMaterials/FY12/milcon/mca-afh-hoa.pdf>
    - [http://comptroller.defense.gov/defbudget/fy2012/budget\\_justification/pdfs/07\\_Military\\_Construction/13-TRICARE\\_Management\\_Activity.pdf](http://comptroller.defense.gov/defbudget/fy2012/budget_justification/pdfs/07_Military_Construction/13-TRICARE_Management_Activity.pdf)

- Divisions with the largest programs:

- North Atlantic – 54 projects
- South Atlantic – 40 projects
- Southwestern – 36 projects
- Lakes & Rivers – 35 projects



# Paradigm Shift

## BRAC Era

- Military Programs
- Commodity
- Energy/sustainability as a consideration
- Transformation
- Service Supplier



INTRODUCING EVANS ARMY COMMUNITY HOSPITAL'S NEW  
**PREMIER ARMY HEALTH CLINIC**

1820 North Lamar Blvd, Colorado Springs  
(at North North Perry and Stone Road in the Premier Health Plaza building)

Opening this summer, a "one-stop-shop" for your family's primary health care needs in a central Colorado Springs location.

Enroll Now!

Providing:  
Family Medicine, Immunizations,  
Inpatient Medicine, Laboratory,  
OB/GYN - Women's Health,  
Pediatrics, Pharmacy, X-ray

To make the Premier Army Health Clinic your healthcare home visit the TRICARE Service Center on the 2nd floor of Evans Army Community Hospital. TRICARE PLUS options over age 65, contact Mrs. Corinne Penn (719) 539-7367 to request a change.

For additional information on the new clinic contact E. Isabella Bartheleme at (719) 520-7580

f = Solutions



- ## Post-BRAC
- Military Missions
  - Value
  - Energy/sustainability as a driver
  - Innovation
  - Systems Integrator



# Installation Management Command



Supporting  
world-class  
sustainable  
installations  
our Soldiers  
call home



## Fitness Centers

FY12

- Fort Sill
- Fort Riley
- Joint Base Elmendorf- Richardson
- Fort Campbell



## Child Development Centers

FY12

- Fort Shafter



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# DoD Education Activity



## Building 21<sup>st</sup> Century Schools



**DoDEA** has a total of 194 schools and currently faced with the challenge of replacing or renovating over 130 schools worldwide for a total program budget of \$4.5B over the next seven years.

### **FY 12 Key Projects:**

- Elementary School Ft. Benning, GA \$37M
- Middle School Hanscom AFB \$34M
- Elementary School Ft. Knox, KY \$39M



# TRICARE Management Activity



**Meeting  
military mission  
requirements  
with world-class  
health care  
facilities**



## **FY12 Key Projects:**

• Hospital	Landstuhl, Germany	\$1.2B
• Ambulatory Care Center	Lackland, AFB – Phase III	\$161M
• Hospital Alteration	Ft. Stewart, GA – Phase II	\$72M
• Hospital Alteration	Ft. Campbell, KY	\$57M
• Hospital Alteration	Ft. Bragg NC	\$58M
• Clinics (3)	Eglin AFB & Ft. Drum, NY	\$32M



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# Air Force



## FY 12 Key projects:

- Headquarters STRATCOM Replacement, Offutt AFB, NE, \$564M
- Air Force Nuclear Weapons Center Sustainment Center, Kirtland AFB, NM, \$25M
- Dormitories, eight, multiple locations, \$254M
- F-35 and F-22 Bed-Down Support Facilities (multiple locations)



# New Policies and Expectations



*Keeping our eyes on the ball  
to know what's coming our  
way*



# New Army SDD Policy

*On October 27, 2010, Ms. Hammack, ASA (IE&E), who was a member of the ASHREA 189.1 development committee, issued an “update” to the Sustainable Design and Development (SDD) Policy that changes our MILCON energy performance standard from 40% better than ASHRAE 90.1 to ASHRAE 189.1.*

*Due to many differences between the private sector and the MILCON project requirements and site circumstances common to Military installations, the policy includes many important exceptions and caveats.*

**Honorable Katherine Hammack**

*Assistant Secretary of the Army  
(Installations, Energy, & Environment)  
Office of the Assistant Secretary of the Army*



# Military Construction (MILCON) Energy Implementation Plan

- **Integrate Energy and Sustainability features**
  - ▶ Leverage bid savings to improve building performance to include enhanced energy performance and select LEED credits
  - ▶ Register vertical construction projects with the Green Building Certification Institute (GBCI)
  - ▶ Minimize consumption of energy, water and materials by pursuing cost effective, innovative design / construction strategies
  - ▶ Continued emphasis on Life Cycle Cost Analysis and reporting
- **A new Engineering and Construction Bulletin, ECB 2011-1, was issued to provide direction to the districts in implementing the new standards. A copy can be found on the Whole Building Design Guide website at [www.wbdg.org](http://www.wbdg.org)**



# MILCON Energy Strategy

*The Army is committed to incorporating Energy Efficiency Measures (EEM's) into its MILCON program*

- **FY10 & FY11** –Use of bid savings to achieve EEM during project contract award and construction without changes to authorized cost and scope (square footage)
- **FY12** –All standard design facility types will incorporate as many EEM's as possible within the remaining design (USACE is already started the final designs on FY12)
  - ▶ Scope and Cost
    - Project cost held constant
    - Projects scope (square footage) increased to accommodate improved building envelope (thicker insulation)
    - Provides improved cost estimation data for future years



# MILCON Energy Strategy

- **FY13+** –EEM fully incorporated into all designs per DASA(IE&E policy dated, 27 October 2010).
  - ▶ Repurpose the existing line item on the DD Forms 1391 to support EISA 2007 (up to 2% of Primary facility cost)
  - ▶ Scope and Cost
    - Projects scope as per FY12
    - Adjust project cost at parametric design phase
- Begin review of Army Standard Designs for full Compliance
- Address cost overruns during execution and manage by exception within the Army and Congressional reprogramming process or reduce scope



# Energy and Sustainability

- Energy Target
  - ▶ 100% fossil fuel reduction by year 2030
  - ▶ Net zero water consumption
  - ▶ Net zero waste production
- Sustainable design
  - ▶ LEED Silver minimum; LEED Gold or Platinum as project funds allow
  - ▶ 40% of LEED credits must be for reduction of energy usage and water consumption
- Strategy: Build today low energy facilities to reduce future demand on renewable sources



## USACE Sustainability Operations and Technical Assistance

- Current Status

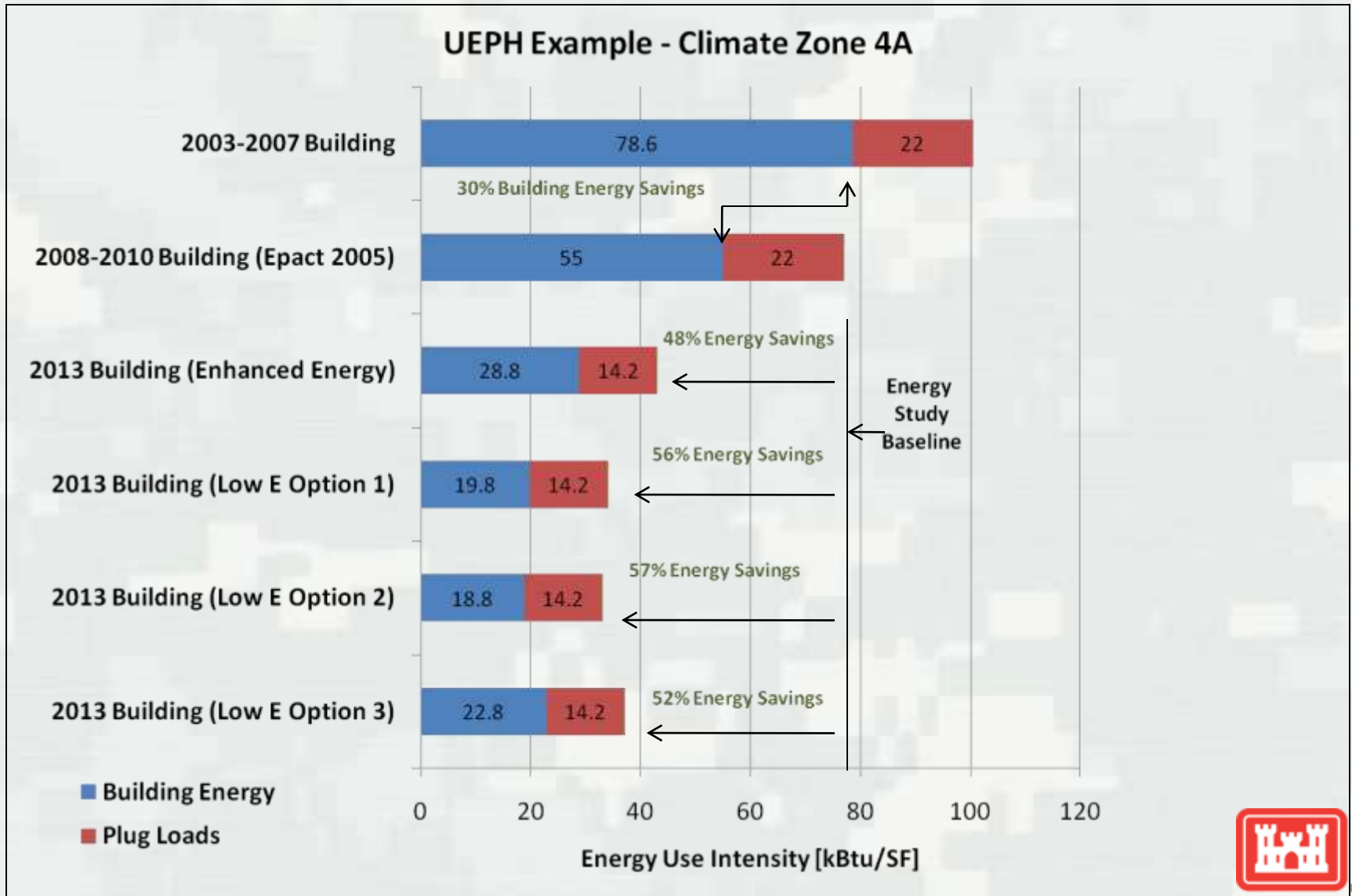
- LEED registration for all projects – 1513 to date
- LEED certification for 5% of FY11-12, 100% FY13 projects
- **Forty-five Army LEED certified projects as of 24 Jan 11**
  - 1 Platinum, 12 Gold, 28 Silver, 4 Certified**
  - Anticipating LEED Silver Scofield barracks
  - Anticipating LEED Silver AFRC in Oklahoma

- Issues Worked

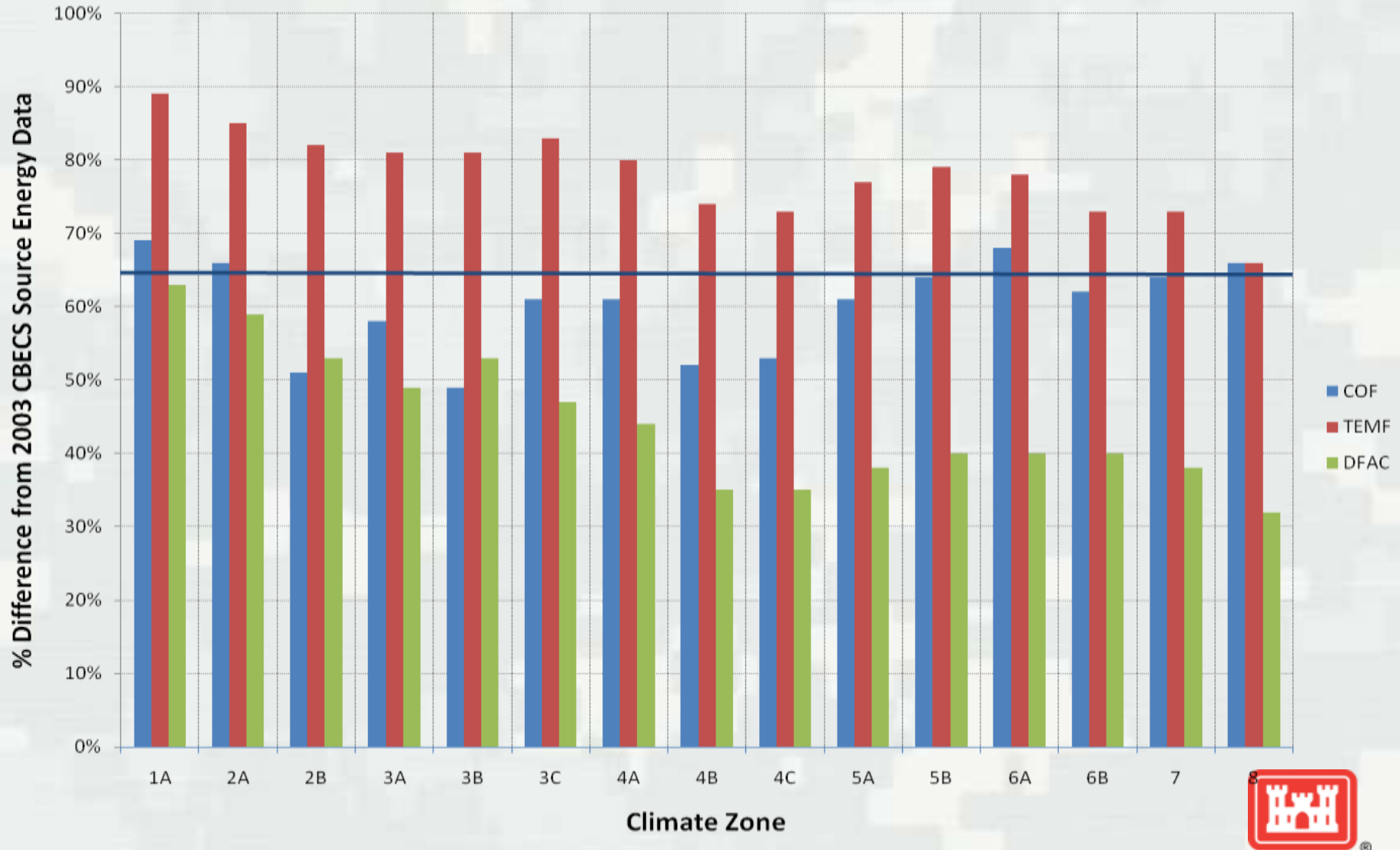
- USGBC V3 required all registered projects to be certified
- Requirement dropped by USGBC
- USGBC V3 required one owner's representative
  - Negotiated one for design/const and one for operations
- Concerns about certifying classified facilities
  - Permission for projects to “blank out” portions



# Driving Energy Savings – moving in the right direction

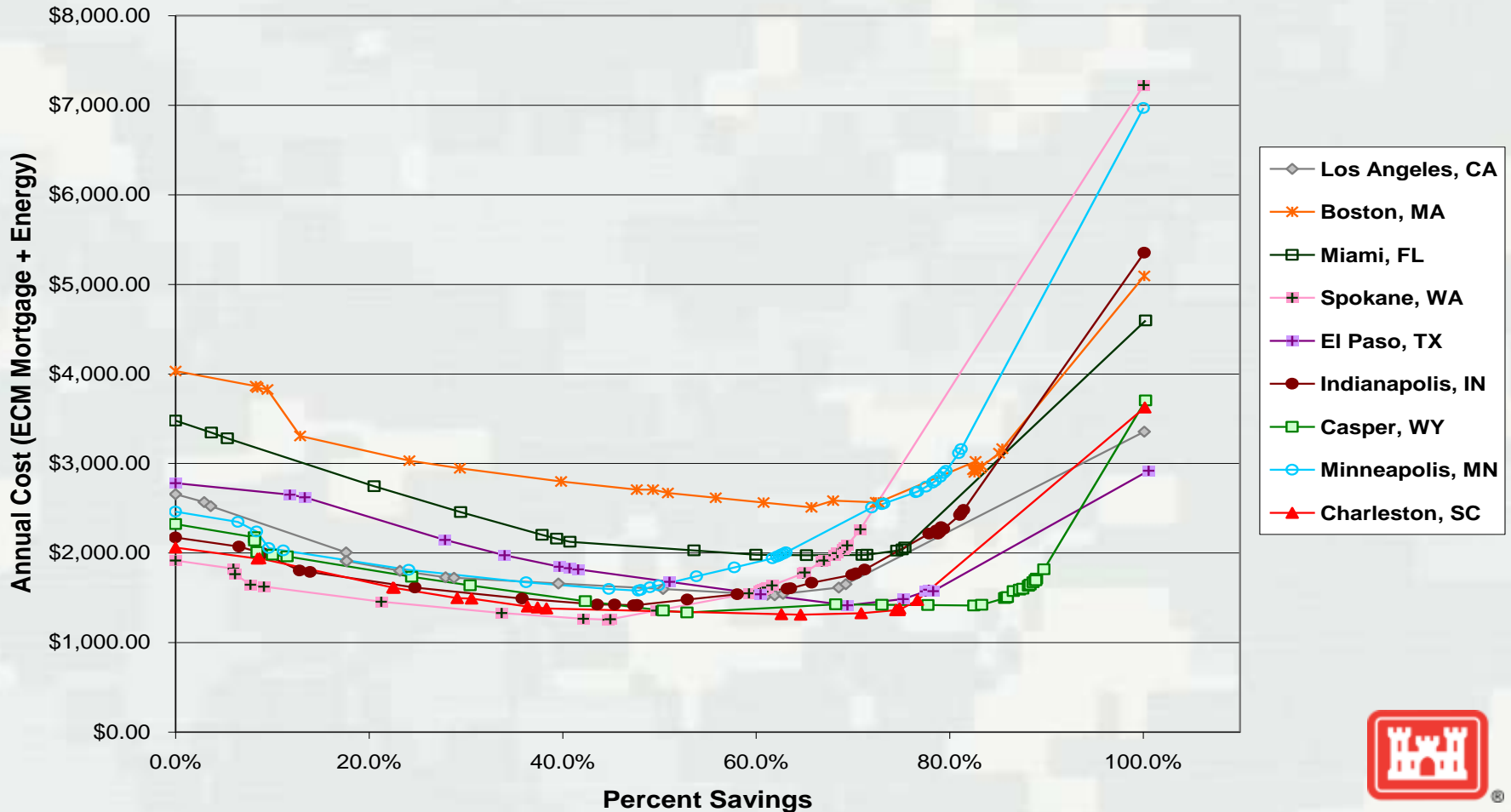


# EISA 2007 Energy Modeling



# Energy Savings and Cost Results – Effect of Location

## Comparison of Cities



# Engineering and Construction

## Current focus areas and a look to the future (cont.)

- Technical skills – How can you help us
  - Continue to watch schedule
  - Be innovative and help us drive energy efficient solutions
  - Continue to push new technologies
  - Make our guide specs the best in industry
  - Consider effects of thermal bridging and tighter building envelopes
  - Become the expert on energy analysis and modeling
  - Use the full potential of BIM for both our customer and construction
  - Look for opportunities beyond a project site to capture additional benefits, like cogeneration .
  - Find a way to store renewable sources of energy
- Stay engaged, look for us at conferences, give us feedback
  - Sign-up for training with us at our Learning Center



# USACE Learning Center

## How to sign up for a Corps sponsored professional development course

Sign-up through the Corps “USACE Learning Center”

Start by accessing the web page: <http://ulc.usace.army.mil/>

1. Find “FY20XX PROSPECT Program”
2. Click “Training schedule” to locate a course
3. Note courses are displayed 20 at a time
4. Click “next” to view more or a letter of the alphabet
5. Note seats available in far left column
6. Once you find your course, note the: Control Number, Course Number, Title, Location, Dates, Length and Tuition
7. Go back to the “USACE Learning Center “ page
8. At the top of the page there is a blue banner that ask “HOW DO I”
9. Click “Register for a course”
10. Go to middle of the page under CONTRACTORS/PRIVATE CITIZENS
11. Click “Register”
12. An e-mail address pops up where you can request your course and start direct communications
13. All request must be in writing.



# *Doing Business With USACE*

- Doing business with us - Directorate of Contracting website:

<http://www.usace.army.mil/CECT/Pages/Home.aspx>

Contractors must be in Central Contractor Registration

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

- All solicitations posted to Federal Business Opportunities (FBO)

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

- Make sure certifications are up-to-date and in correct data bases
  - HUBZone, SBD, 8(a), etc. see <http://sba.gov/>
  - Make sure bonding is in place (for construction projects)
- Do your homework: Know how your capabilities fit our requirements
- Consider subcontracting opportunities as well





# DISCUSSION

