



# Assistant Chief of Staff for Installation Management (ACSIM)

## **Perspective on Energy**

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U.S. ARMY

# ACSIM Perspective

- **Strategic message:** Army continues to reduce energy and expand commitment to use renewable sources. In FY08 we reduced consumption by 10.4% compared to statutory goal of 9%. New Energy Security Strategy sets future of private partnerships for secure and reliable energy for installations / combat forces. Despite conservation efforts, utilities budget continues to grow due to rapidly escalating energy prices.
- **Important components:**
  - **BOS:** FY09 Utilities Services budget will exceed \$1.3 Billion for commodity bills and supporting programs, largest single requirement in the BOS program, doubled from FY04 (\$674 Million) to FY08 (\$1.3 Billion)
  - **SRM:** Stimulus program funds nearly \$350 Million SRM projects which will directly address energy efficiency and/or energy related projects for existing infrastructure.
  - **MILCON:** Meets statute for designs 30% better efficiency than ASHRAE Standard, achieves US Green Building Council LEED SILVER rating for new construction.
- **Additional information:** Army FY08 Energy Scorecard for statutory energy compliance:

OMB Scorecard Performance Metric	DOD	Army	Goal
Energy Requirements	Amber	Amber	
Energy Reduction from 2003 Baseline (BTU/SqFt)	-10.7%	-10.4%	-9.0%
Renewable Energy (% total electricity)	2.9%	1.1%	3.0%
Advanced Meters installed (% appropriate buildings)	40.1%	6.1%	10.0%
Energy Efficient Design in new Construction (% total)	93.0%	100%	100%

ARMY STRONG



# ACSIM Perspective

## Army Energy Program Driven by: EPA Act 2005, E.O. 13423, & EISA 2007

- Installations will decrease energy consumption in existing facilities by 3%/yr through 2015 (30% total)
- All new facilities require construction and equipment that is 30% better than the existing standard (ASHRAE 90.1 2004)
- Metering (Electrical, Gas, & Steam) required on higher consuming facilities by 2012 (Electrical) & 2016 (Gas & Steam)
- Alternate-fueled vehicles operated w/ alternate fuels 10% increase/yr
- Renewable electricity consumption can not be less than:
  - 3 percent in FY 2007-FY 2009
  - 5 percent in FY 2010-FY 2012
  - 7.5 percent in 2013
  - 25% by 2025
- All appliances, equipment, and lighting – Energy Star Rated

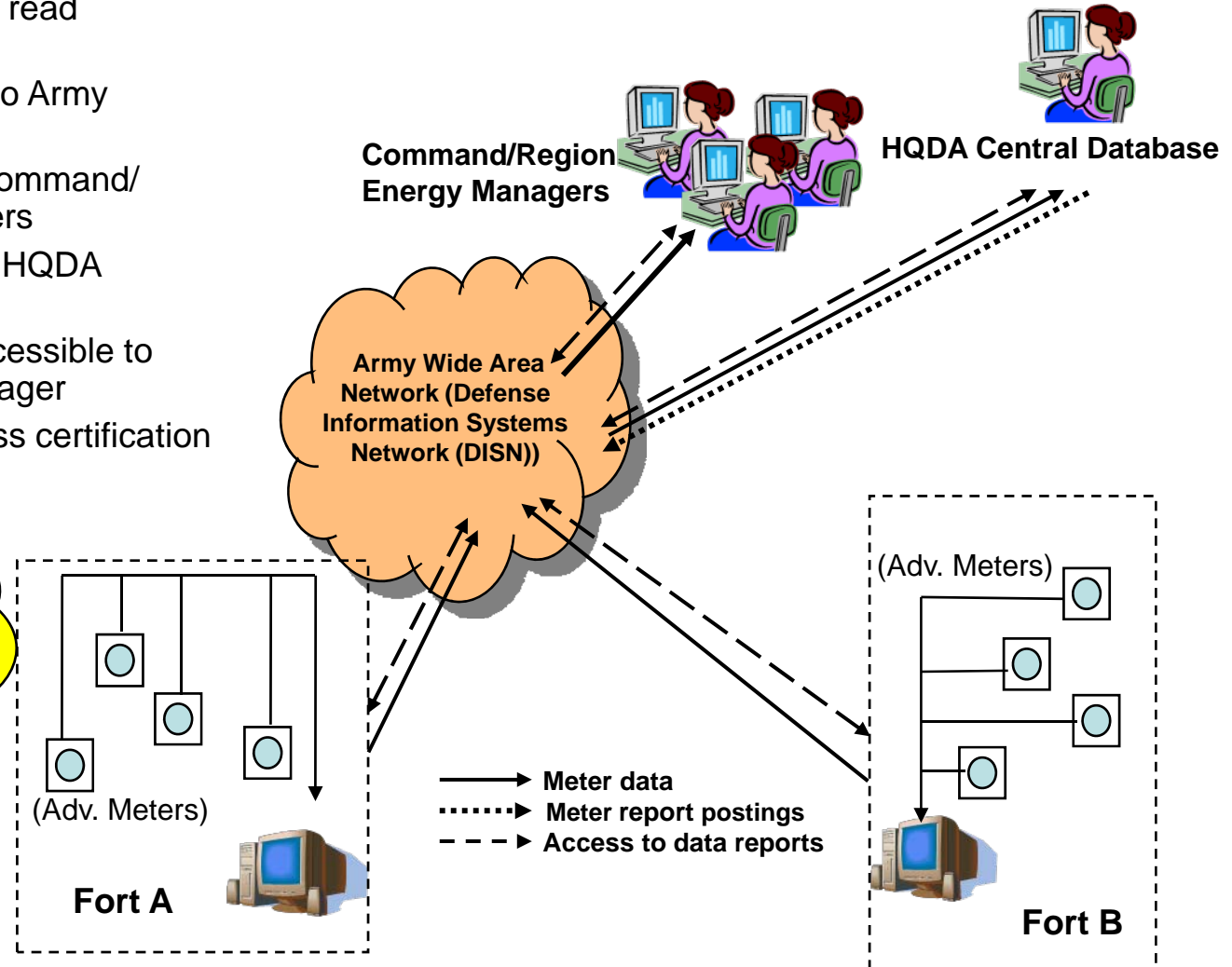


# ACSIM Perspective

## Army Meter Program

Concept:

- ✓ Individual meter data read remotely
- ✓ Data reports posted to Army hosted website
- ✓ Data monitored by Command/Region Energy Managers
- ✓ Data consolidated at HQDA Central Database
- ✓ Reports and data accessible to installation energy manager
- ✓ System net worthiness certification



Included facilities >29,000 SF (equivalent to average annual energy cost of \$35K/yr breakpoint for economical to meter) per DOD guidance.



# ACSIM Perspective

## Fifteen (15) low-cost or no-cost Energy Conservation Measures

- 1) Computers & monitors turned off or put in sleep mode
- 2) Stop idling vehicles
- 3) Turn off all interior lights when leaving a room as the last person
- 4) Turn off scanners, copy machines, faxes, printers (or put into sleep mode)
- 5) Use Setback temperatures on heating, ventilation & air conditioning equipment
- 6) Turn off all outside lights during the day
- 7) Doors & windows active management to be closed for conditioned areas
- 8) Motors & pumps operate on automatic controls
- 9) Remove all incandescent lights
- 10) Remove all extra refrigerators, microwaves, coffeepots & other appliances
- 11) Replace all exit lighting with LED or Glow in the Dark fixtures
- 12) Install or replace weather stripping on every entry way - Calk all joints, window frames, door jambs & penetrations
- 13) Rewire all indoor lighting that is on 24/7 to switches or motion sensors
- 14) Replace the HVAC filters & check the tension on fan drive belts
- 15) Replace all motors & pumps with high-efficiency Energy Star Rated units

***Everyone Can Make A Difference !!***



## Emerging Issues

- Energy Security = Protecting Army power & fuel sources with focus on critical assets
- Volatile Fuel Prices = Programming challenges for the future
- Defining Net Zero Solutions = Leveraging third party capital
- Developing Command (including IMCOM) Energy Implementation Plans
- Moving Army to expanded use of Renewable Energy & Alternative Fuels