



# USAF Metering Update

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# Overview

- USAF Metering Plan
- Current status
- DEAMC update
- Way Ahead

If you don't measure it you  
can't manage it



# USAF Metering Plan

The AF metering implementation Plan provides the following milestones:

- HQ/A7C published metering guidance (Apr 06)
  - DODI 4170.11 established guidelines
- Established an IPT Metering team
  - Bases, Commands, Air Staff, utility experts
- POM meter initiative approved at HQ/A7 (Oct 06)
  - \$5M/yr to install meters starting in FY08



# USAF Metering Plan (con't)

- Developed initial meter count from data calls (Dec 06 & Apr 07)
- Publishing base meter spec to standardize installation process (Sep 07)
- Governance board to decide use of funds (Oct 07)
  - Established baseline cost at \$35K/yr or 35K SF fac
  - Established an installed cost at \$5K/meter
- Continue to update database and report results



# USAF Current Status

- Initial metering count
  - Existing AMR ----- 937
  - Existing Local ----- 2044 (upgraded/replaced)
  - Meters tied to EMCS -- 263
  - New AMR required --- 2733 (no meter installed)
- Total metering requirement to meet EPACT is:  
 $2733+2044 = 4777$

Note: AF has a total of nearly 10,000 meters installed  
(includes those not required by Epact)



# USAF Current Status (con't)

- AF requires all MILCON projects to include meters
- FY09 ECIP projects will be required to install meters (if upgrade to fac is over \$200K)
- Numerous Commands actively funding meters through their O&M programs
- HQ A6N (Comm) developing AF wide policy on communication protocols for metering systems and the total data enterprise solution program



# DEAMC Update

- Defense Energy Awareness & Management Center
  - Funded under the distributed Mission Interoperability Toolkit (DMIT)
  - AF is the lead service for this initiative
- Objectives:
  - Integration of AMR to existing DOD facilities
  - Meter data repository for centralized storage/Mgt
  - Vendor neutral solution



# DEAMC Current Status

- Established Mobile Internet Connection at Norfolk (Navy) to access meter data from 800 metering points.
- Fort Belvoir (Army) to become pilot for RF technology Fall 2007.
- Contacted 10 AFB for feasibility of sharing data for project and becoming involved in DEAMC Pilot
- Visited Bases with smart metering deployment, begun preliminary work to share data.
  - Tyndall AFB – Home of AFCESA
  - Barksdale AFB – Johnson Controls Metasys
  - Fort Myer – Future involvement similar to Fort Belvoir
- Physical Data model created, logical data Model created, and Data Definition Language created.

# Way Ahead

- AF has a POM initiative to fund metering
  - Annual review governance board to apply funds
- Database will be continually updated
- To meet EPACT:
  - Install est. 5000 AMRs by 2012
  - Currently have 16% that meet EPACT requirement
- Goal: Install 1000 meter/yr (20%)
- Continue working economics/training



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