

## **Department of Defense Metering plan as required by the Energy Policy Act of 2005**

### **Goals:**

Complete implementation of electric metering by September 30, 2012 in compliance with requirements of the Energy Policy Act of 2005, Section 103, Energy Use Measurement and Accountability, at DoD facilities where it is practical to do so.

Complete installation of additional commodity meters as practical, by fiscal year 2014.

### **Objectives:**

Work with the Department of Energy, Federal Energy Management Program office, to develop facility energy benchmarks to determine which facilities are most conducive to energy conservation projects (mid-term.)

Utilize metered data for billing allocation to assist resource managers with developing individual facility usage goals (long term.)

Utilize metered data for demand management by making users aware of actual energy consumed (long term.)

### **Plan Element 1: EAct 2005 Metering Requirement**

Milestone 1-1: Complete installation level meter surveys by April 2008

Milestone 1-2: Complete Component level metering plans by July 2008

Milestone 1-3: Complete installation level metering plans by June 2008

### **Plan Element 2: Program Structure**

Data collection needs differ by DoD component. Each Component is developing its own data needs within the framework of its individual metering plan. At a minimum, data will be collected to identify energy utilized within facilities where it is practical to do so.

Analysis methodologies will be developed by each DoD Component within its metering plan to utilize the collected data in an effort to reduce energy consumption. Analysis methods will be different for each Component, based upon the data collected and the ability of facility occupants to affect energy consumption.

Equipment needs will be determined by each DoD Component as a function of the data needs and the practicality of metering the facility. Requiring less sophisticated equipment for data collection will result in favorable reviews of practicality for more facilities. In those facilities with specific requirements, more sophisticated equipment will be utilized.

Existing infrastructure within DoD is currently being reviewed as the beginning stage for each Component's metering plan. Each installation will conduct a survey of equipment to identify existing meters, communication options, and to develop an installation specific metering implementation plan.

**Plan element 3: Criteria for evaluation of metering cost, benefits, and impacts**

Milestone 3-1: Complete strategy for evaluation of practicality by Jan 2007

The Navy has taken the lead in developing guidance which will be provided to all DoD components to establish the methodology for determination of "practicality." The methodology will take into account the projected energy utilization of the facility and the ability to affect energy reduction through metering. As a general guideline, meters will be installed where there is an expectation for a 10 year or shorter payback for the meter installation and operations and maintenance costs through energy conservation as a result of that meter.

**Plan element 4: Implementation plan:**

DoD Component plans will address prioritization of facilities metering in the individual plans. Generally, those facilities with the highest practicality rating based on the evaluation criteria will be metered first. Implementation plans will be developed, prioritized and executed at the installation level, with oversight up the chain of command.

The timeline for implementation are Component specific, but in all cases will comply with the requirements of EAct 2005.

**Plan element 5: Performance measures:**

Milestone 5-1: Begin reporting metering progress by Jan 2008.

It is expected that at least 75% of DoD electrical consumption will be metered through implementation of the Component metering plans. Measurement of number of buildings metered and percentage of consumption metered will be made in accordance with FEMP guidance starting in FY2007. Progress toward implementing specific metering plans will be reported with the annual energy report.