

## DEPARTMENT OF ARMY GUIDANCE FOR FY 2013 ANNUAL ENERGY MANAGEMENT REPORT

### Army Narrative Report Guidance

**1.0 Narrative Report.** The report narrative must provide information on the Command's facility energy program describing progress toward energy and water goals. The narrative must also provide insight into issues that limit energy performance improvement and the plans to resolve them. The narrative input for the report must address each of the elements listed in the following sections. This guidance document includes requirements specified in the Department of Energy guidance and additional Department of Defense specific requirements. The organization and sequencing of the input must be consistent with the sections below. The narrative section of the report must address changes in trends from previous year's data submissions. Discussions of percentages must indicate the numbers used to produce the percentage in order to facilitate compilation at the Army level. Commands must submit a single narrative report, consolidated from information from their installations, and indicate that they have validated the accuracy and completeness of their installations' FY13 Army Energy and Water Reporting System (AEWRS) data that will be used in the Army report.

**1.1 Executive Summary.** Commands must provide a summary of their progress in meeting goals for energy intensity, renewable energy, water conservation, metering and petroleum fuel use. This summary must also highlight key aspects of the energy management programs for FY13, include representative projects, and summarize key energy program issues and plans for FY14.

**1.2 Progress Towards Energy Efficiency.** Provide in your narrative report a discussion of progress achieved toward facility energy efficiency goals, highlighting strategic, installation, and project-level initiatives that contribute to meeting those goals. Discuss any extenuating factors that contributed to the success or failure, and may have influenced energy efficiency performance. Describe energy efficiency efforts planned for FY14-17 to help meet energy efficiency goals, including expected investment levels. **7 locations will be renovated or upgraded in the category of HVAC, Electrical, Windows and Doors. Design was done in FY13 and construction will be performed and completed in FY14 for a total of \$1.749 million dollars. FY14 –FY17 designs done in FY14 in the category of HVAC, Electrical/Lighting and Plumbing \$104,798.**

**1.2.1 Energy Intensity by Installation.** Commands are to list their top five and bottom five energy efficiency performers (installations) as compared to the FY03 baseline, and explain what specific circumstances led to this performance (e.g., investments, leadership, weather, operational tempo, etc.). The Annual Energy Management Report to Office of the Secretary of Defense will include a list the installations that reduced or

increased their energy intensity by three percent or more in FY13, compared to FY12.

**Top Five:** Stow (FMS 5), Youngstown VMB (FMS 5), Rickenbacker Bldg 942, Cleveland Brook Park (FMS 2) and Walbridge (FMS 16). **Bottom Five:** St Marys MVS, Cols (Sullivant) GP Storage, Wooster MVS, Springfield Armory, Eaton Armory.

**1.3 Progress Toward Water Conservation.** Provide narrative information in support of water consumption and intensity data reported by your installations into AEWRs, and highlight particular initiatives contributing to meeting water demands more efficiently. Include a discussion of progress made towards meeting the Energy Independence and Security Act potable water intensity reduction goal and the Executive Order 13514 irrigation, landscaping, and agricultural water consumption reduction goals. **As reported in AEWRs, new buildings were added. FY14 –FY17 projects designs being done in FY14 in the category of Plumbing Renovation \$147,265K.**

**1.4 Non-Tactical (Fleet) Vehicles Petroleum Fuel Use.** Provide narrative information in support of anticipated progress toward the petroleum reduction goal, highlighting strategic, installation, and project-level initiatives to reduce petroleum use and increase the use of alternative vehicles. Report any FY13 non-tactical (fleet) fuel consumption and cost that is NOT accounted for in the Federal Automotive Statistical Tool (FAST) system, into AEWRs as described below in the Army Data Report Guidance section. For any data reported into this section of AEWRs to be considered valid, the Command must provide a description of the usage in the Narrative Report. **N/A**

**1.5 Operational Energy Fuel Use.** Report any FY13 mobile operational energy fuel use that was NOT purchased through DLA-Energy, into AEWRs as described below in the Army Data Report Guidance section. For any data reported into this section of AEWRs, provide a description of the usage in the Narrative Report. **N/A**

**2.0 Renewable Energy Performance.** Provide an overview of progress toward increasing the use of renewable energy and contributing to meeting renewable energy performance goals. Highlight progress toward renewable energy goals with noteworthy renewable energy systems put into service in FY13 and direct purchases of renewable energy including the disposition of renewable energy certificates (REC) potentially accompanying the energy. See the Army Data Report Guidance section below for additional information on RECs. **In FY13: As promised in FY12, 644KW was not complete due to an impasse with the local utility company. JAG legal staff is working to complete the term sheet that will protect the ONG. Ohio has increased its electric energy consumption by 8.7%. Total Renewable Solar Capacity is 720kW**

**2.1 Renewable Energy Data.** Report all renewable energy production, purchases, and consumption into AEWRs as described below in the Army Data Report Guidance section. **Reported in AEWRs**

**3.0 Energy Security.** Provide information that supports increasing energy security and power resiliency on installations. Describe energy security activities and initiatives undertaken in FY13 and include examples of projects or initiatives improving the resiliency of Army missions by increasing reliability, redundancy, continuity, or other areas. Report utility outages in the DoD Supplemental Workbook as described below in the Army Data Report Guidance. **Reported in AEMR Workbook**

**4.0 Metering Progress.** Describe efforts toward increased advanced metering on installations. Highlight particular initiatives to increase advanced metering, reduce the cost of metering, and partner with utilities and energy service companies. Report the quantity of electricity, natural gas, steam, and water metered in AEWRS, and baseline numbers for consideration of water and steam meters, as described in the Army Data Report Guidance described below. Data and information on the quantity of actual energy being reported to the central meter data management system, as well as the FY14, FY15, and FY16 planned metering for electricity, natural gas, steam, and water will be obtained from the Army Central Meter Program manager. **Reported in AEWRS Workbook**

**5.0 Energy Projects Funding.** Provide narrative information that lists projects funded through appropriations and third party financing mechanisms, highlighting retrofit and capital improvement projects. **N/A**

**5.1 Energy Projects Funded by Appropriations & Third-Party Financing.** Describe noteworthy energy efficiency, renewable energy, or water conservation projects funded through appropriations or third-party financing. In the DoD AEMR Supplemental Workbook list all projects awarded in FY13 that were funded through third-party financing to include energy savings performance contracts (ESPC), enhanced use leases (EUL), utility energy service contracts (UESC), utility privatization (UP) agreements, and power purchase agreements (PPA) as well as projects funded by appropriations. Appropriated projects should include all projects funded through military construction (MILCON), the Energy Conservation and Investment Program (ECIP), operations and maintenance (O&M), sustainment, restoration and modernization (SRM), and working capital funds. **N/A**

**5.2 Retrofit and Capital Improvement Projects.** Describe any large capital energy investments (>25 percent of plant replacement value) in existing buildings during FY13 involving replacement of installed equipment (e.g., heating and cooling systems) and application of the most energy efficient designs, systems, equipment, and controls. Describe plans for future large capital energy investments. List retrofit and capital improvement projects awarded in FY13 in the DoD AEMR Supplemental Workbook. **7 locations will be renovated or upgraded in the category of HVAC, Electrical, Windows and Doors. Design was done in FY13 and construction will be performed and completed in FY14 for a total of \$1.749 million dollars.**

## **6.0 Federal Building Energy Efficiency Standards.**

**6.1 Progress Towards Meeting ASHRAE 90.1 Standards.** Commands with primary responsibility for new construction will report progress toward meeting American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Standard 90.1 by listing the projects for which design started in FY13 on the building design spreadsheet accompanying this guidance. The cumulative list of projects designed since enactment of EAct 2005 and reported annually in this report is included with this guidance. Headquarters, U.S. Army Corps of Engineers will provide an update of Active and Reserve Component MILCON projects for which design started in FY13 and the Office of the Chief, National Guard will provide details of National Guard MILCON projects with their Narrative Report submittal. **Reported in AEMR New building Designs**

## **6.2 Progress in Meeting Green Buildings and Sustainable Buildings Standards.**

Describe progress made in FY13 to meet sustainable building policy as articulated in the OSD memo from October 2010 (compliance with Guiding Principles, LEED Silver certification or equal, with 40% of points coming from energy and water savings) in construction and major renovations. Include the number of buildings completed in FY13 and, of those, how many complied with OSD's sustainable design policy. **Every new building in MILCON is required to meet LEED Silver. Noted in AEWRS**

**7.0 Energy Performance Master Plan.** The Army Annual Energy Management Report is to include a section on the Energy Performance Master Plan, which aligns the energy performance goals with efforts and resources to achieve those goals. To support the development of the Plan, provide discussion on how the specific investments and planned projects will help achieve the energy efficiency, renewable energy, and petroleum consumption goals, describe financial and economic methods used to select projects, and opportunities for improving energy security from facility energy projects. **Ohio has created and updated the Energy Management Program that appoints responsibilities of how to achieve the continued success of fossil fuel reduction of 3% per year. Ohio attacks the low lying fruit and continues to add building maintenance controls to all facilities to have either remote or local control to maintain and operate occupied and unoccupied conditions. Ohio has aggregated 78 electrical accounts total of 29,415 MWh for electrical suppliers to bid on. The auction yielded a projected savings of \$412K over a two year period.**