

## REM

Resource Efficiency Managers, identified as a best practice toward achieving Net Zero in the 2012 Net Zero Report, enhance installation energy programs by identifying cost-effective programs and practices to reduce energy and water costs. Savings generated more than offset the cost of the REM. Huntsville Center has an IDIQ contract with a pool of five contractors available.

## ESPC

The Energy Savings Performance Contracting (ESPC) program is a partnership between the Army and an Energy Service Contractor (ESCO). Working with the garrison, the ESCO provides the capital and expertise to make comprehensive energy and water efficiency improvements on facilities or implements new renewable energy capabilities and maintains them in exchange for a portion of the generated savings.

An Energy Savings Performance Contract is one of the acquisition vehicles an installation can use to meet the Army's 30 percent energy and 15 percent water reduction goals without up-front capital costs. Actual energy cost savings pay for the ESPC efforts on a yearly basis.

An ESPC task order provides four key benefits:

- Savings guarantees are mandatory
- Savings must exceed payment each year
- Measurement and verification are mandatory
- Allows for the replacement of older systems with newer more efficient systems

## PPA

The Power Purchase Agreement (PPA) program provides a Multiple Award Task Order Contract (MATOC) contract vehicle for the long-term purchase of energy from Renewable Alternative Energy production facilities that private sector corporations design, finance, construct, operate and maintain on or near Department of Defense installations. The installation then purchases power from these facilities without acquiring any power generation assets, facilities or services costs.

The PPA provides an essential contract vehicle that enables installations to meet Net Zero Energy goals by using renewable energy sources for 25 percent of their total facility needs by 2025. PPA solutions also achieve energy security compliance and decrease energy dependency risks. The PPA program works closely with the Army Energy Initiatives Task Force (EITF) on large scale (10MW or greater) efforts.

## About Huntsville Center

The U.S. Army Engineering and Support Center, Huntsville employs more than 800 civilian and military personnel and manages nearly \$1.7 billion of work annually. The multi-disciplinary experts include registered engineers and architects, scientists, safety professionals, project managers, trainers and supporting staff experts in fields such as contracting and legal counsel. Because of its unique engineering capabilities, the Huntsville Center supports Corps of Engineers' missions worldwide.

## Sustainability

The Army Corps of Engineers strives to protect, sustain and improve the natural and man-made environment of our nation, and is committed to compliance with applicable environmental and energy statutes, regulations and Executive Orders.

Huntsville Center's energy programs are in line with the Army Corps of Engineers' commitment to ensuring sustainability is a natural part of not only our decision processes, but also our organizational culture. We define sustainability as an umbrella concept that encompasses energy, climate change and the environment to ensure what we do today does not negatively impact tomorrow.

USACE is a steward for some of the nation's most valuable natural resources, and we must ensure our customers receive products and services that provide for sustainable solutions that address short- and long-term environmental, social and economic considerations.



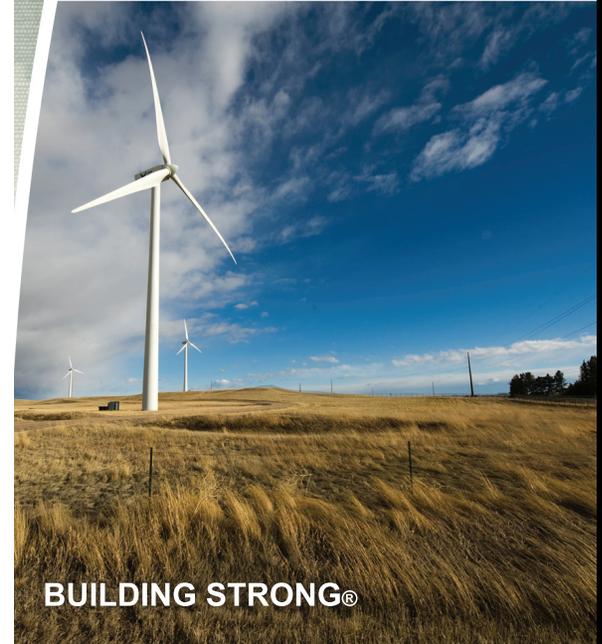
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## Overview

Huntsville Center's Energy Program supports the Army Energy Campaign Plan through specific programs and projects. Huntsville Center works to help implement the Army Energy Campaign Plan's five goals for 2030:

- Eliminate energy waste in existing facilities
- Increase energy efficiency in new construction and renovations
- Reduce dependence on fossil fuels
- Conserve water resources
- Improve energy security

## Energy Programs

Huntsville Center has provided support for Army strategic energy initiatives for more than 20 years. This support includes, but is not limited to the following:

- Commercial Utility Program (CUP)
- Energy Conservation Investment Program (ECIP)
- Energy Engineering Analysis Program (EEAP)
- Energy Savings Performance Contracting (ESPC)
- Metering/Meter Data Management System (MDMS)
- Power Purchase Agreement (PPA) Program
- Resource Efficiency Manager (REM) Program
- Utility Energy Services Contract (UESC) Program



## CUP

The Commercial Utility Program provides the expertise for utility and regulatory issues by helping the Army purchase reliable utility services at the best rates and helps garrisons resell their utilities to tenant activities.

A proven cost saver, CUP provides substantial cost avoidance and savings. CUP provides utility consultants, utility company information, installation data, technical support and expert witnesses to appear before utility commissions in support of rate intervention to oppose utility company rate increases. Cost savings and avoidance opportunities are also identified through utility service studies and utility contract review and assessments.

As a representative of the Army Power Procurement Officer, it has the authority to approve utility contracts and Power Purchase Agreements whose annual costs exceed \$500,000 and is available to assist garrisons with utility contracting matters ranging from using deregulation to renewable energy.

## EEAP

The Energy Engineering Analysis Program assists the Army in achieving federally mandated energy and water reduction goals.

The process, also known as energy audits, assessments or surveys, identifies energy conservation measures through the performance of site surveys and analyses. The audits are a means to identify energy and water reduction opportunities that can be executed to achieve the near-term goals of 30 percent energy and 16 percent water use reductions by 2015.

- Energy audits help DOD agencies develop fiscal year budgets and capital investment strategies
- Provides a starting point to meet Army energy goals
- EEAP supports a holistic, integrated approach for energy improvements
- Energy audits are a Net Zero best practice
- Assist in the development of the DD Form 1391 to identify energy requirements for Energy Conservation Investment Program project funding

## ECIP Validation

The U.S. Army Office of the Assistant Chief of Staff for Installation Management and the Huntsville Center jointly developed a program management plan for Army, Army Reserve and National Guard Energy Conservation Investment Program project validation. ECIP energy projects reduce energy consumption and generate renewable energy. Huntsville Center validates all Army ECIP projects before they can compete for funding.

## UESC

Utility Energy Services Contracting Program contracts with utility companies to provide their federal agency customers with comprehensive energy and water efficiency improvements and demand reduction services. In a Utility Energy Services Contract, the utility company fronts the capital costs, assesses the opportunities, designs and installs the equipment in the project, and provides performance assurance inspections.

## MDMS and Metering

The Army Meter Data Management System is an enterprise energy information system for the collection, analysis and display of energy data at the installation, regional and headquarters levels. MDMS collects meter data (electric, gas, steam and water) from all sources on an installation (production and consumption), energy projects, and provides the energy manager with a comprehensive display of the installation's energy footprint using a website portal. The energy data will be used to develop energy baselines, energy projects to reduce consumption, validation of energy savings, utility rate review, tenant (reimbursable) billing, and energy reporting.

