

"Make Energy a Consideration in All We Do"

ENERGY express

The Air Force Facility Energy Center Newsletter

November/December 2011

Energy Awareness Initiatives

Another Energy Awareness Month (EAM) is behind us. Now it's time to evaluate our culture change initiatives, assess their effectiveness, and share the good ideas through EAM After-Action Reports. MAJCOMs are compiling their reports and must submit them to the Air Force Energy Office (SAF/IEN) by December 16. Here's a look at some unique EAM initiatives that will be included in the reports.

PV for PA

While large investments make large impacts on energy intensity reduction, small investments can have a large impact on public awareness. ACC has developed an initiative to install photovoltaic panels at base entry electronic marquees to increase public visibility of the energy program.

Known as "PV for PA," the program began in 2010, and is still being implemented at ACC bases. In November, Beale Air Force Base leadership flipped the switch on new solar panels to power the marquee. The panels, provided by ACC at no cost to the base, were installed in an effort to reduce energy use and showcase Team Beale's effort to follow the commander's priority of reducing waste.

"It's reasonable to identify garbage, money or electronics as waste, but most people don't remember that electricity is also an asset which can be misused," said Mr. Robert McBride, 9th Civil Engineer Squadron base energy manager. "Projects like these are right in line with the general's goals."

Mr. McBride said the new solar panels are in a perfect place because the marquee uses electricity 24 hours a day and has a good number of vehicles pass by it each day.

"Our hope is for people to see the effort we are making while we try to reduce our footprint on energy usage," he said.



Mr. Danny Steinmetz, 9th CES asset optimization chief, Col Douglas Barron, 9th Mission Support Squadron commander, Lt Col Mark Shoviak, 9th CES commander, and Mr. Robert McBride, 9th CES base energy manager, cut the ceremonial ribbon signifying the start of operation for a solar panel array at Beale AFB, Calif. (Photo by Mr. John Schwab)

Sidebar Photo: "Airman Beast," the 4th Civil Engineer Squadron energy awareness mascot, gathers with children from the Youth Center at Seymour Johnson AFB, N.C., to give energy conservation a thumbs-up. Airman Beast and Energy Manager Matthew Latham went to the Youth Center in October to teach children about energy conservation. (photo by A1C Mariah Tolbert)



Energy Awareness Initiatives

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Members of Ramstein AB's Save Our Resources Team describe their energy awareness initiatives to Maj Gen Timothy Byers. Left to right: Ms. Anna Lessire, Mr. Erik Aufdermauer, Maj Gen Byers, Mr. Ralph Lusby, and Ms. Amanda Mehrstens. (Photo by Capt. Raymond Elmore)

Save Our Resources Team

In recent years, Ramstein AB formed the Save Our Resources Team, or SORT, and has branded their identity through Air Force Network commercials, posters, and awareness gear. This year, the SORT actively promoted energy awareness throughout the local military community. The team participated in radio interviews, newcomer briefings, and the SAME Sustaining Member Fair. The team also published newspaper articles, hosted excursions to energy-related sites, and coordinated activities with DOD schools.

This year's Base Civil Engineer (BCE) conference highlighted the importance of asset optimization and energy conservation efforts. BCEs visited the SAME fair as part of the conference and participated in a cogeneration and water plant tour. More than 35 participants (Army and Air Force engineers, commanders, civilians, and contractors) learned about the work that goes into providing utilities to the community and the impact of conservation.

After conducting at-home experiments, second grade students visited the base water plant to evaluate water usage in their homes. Sixth graders prepared posters, brochures, and presentations on energy sources with a focus on renewable energy.

Energy Industry Days

Hanscom AFB, Mass., hosted Energy Awareness Industry Days in October with 14 industry organizations to discuss a wide range of renewable energy approaches ranging from geothermal wells and photovoltaics to advanced insulation techniques and facility retro-commissioning. Many presentations are posted at https://herbbtools.hanscom.af.mil/esc_opps.asp?rfp=R2895&EditType=Edit.

AMC Recognizes Energy Leaders

*Ms. Amy Ausley
HQ AFCEA/CEBH*

AMC announced its annual Energy Incentive Awards in October. Now in its third year, the program rewards groups and individuals who excel in promoting energy conservation and cultural change at their bases. Monetary prizes are given to groups, and plaques are given to individual winners.

Group Awards

First place, with a prize of \$100K, went to the 60th Air Mobility Wing, Travis AFB, Calif. The base invested \$5.2M in energy projects, which are expected to save the base \$12M over the lifetime of the projects.

The 628th Air Base Wing, Joint Base Charleston, S.C., collected the second place spot and a check for \$75K. JB Charleston trained over 400 facility managers on energy reduction goals and conservation measures and has reduced energy intensity 32 percent since 2003.

The third place, \$50K award, went to the 19th Airlift Wing, Little Rock AFB, Ark., for saving \$5.5M worth of jet fuel, and building a new water tank. The three-million-gallon water tank project saves \$384K per year and reduces water use 54 percent.

Individual Awards

Individual AMC Energy Awards kicked off with first place going to Ms. Allison Greco, Travis AFB. Through programming, Ms. Greco provided over \$10M in new projects for an annual savings of \$1.5M. She led a successful energy awareness campaign that slashed electric use by seven percent in just one month. Ms. Greco led feasibility studies for a 19MW solar project and a 15MW waste-to-energy project.

Ms. Diana Gilchrist, McConnell AFB, Kan., was awarded second place for leading a small-scale wind and a solar project on base. A true visionary, she installed wind energy test towers on former missile sites in coordination with AFCEA and the National Renewable Energy Laboratory.

Ms. Elizabeth Toftemark, Scott AFB, Ill., the third place winner, was selected for her leadership in revitalizing the Energy Management Steering Group and monthly "energy conversations" with the base community at large. She also coordinated daylighting and cool roof projects.



Mr. Dick Woodworth gives a post-award management presentation. (Photo by Mr. Eddie Green)

AFCESA Hosts Annual UP Workshop

Ms. Amy Ausley
AFCESA/CEBH

Ideas shared at a Utilities Privatization (UP) workshop hosted by AFCESA at Tyndall AFB, Fla., in November are providing a way ahead for the UP program. The two-day workshop included representatives from the Air Force Secretariat, Office of the Secretary of Defense, Headquarters Air Force, MAJCOMs, bases, the Defense Logistics Agency, the Navy, and AFCEE. Attendees discussed lessons learned as well as the keys for continued success.

Col Bart Barnhart, Chief of the Asset Management and Operations Division in the office of the Civil Engineer, shared his thoughts about UP through a teleconference with the group. "I see UP as a way ahead that we need to look at closely and do it whenever we can. As the Base Civil Engineer at Offutt AFB, I saw the electrical system privatized. The local utility won the contract, and they were able to come in and take our system up to the shape it should have been kept in."

AFCESA engineers reported on their recent post-award management visits to ten bases and shared their findings with those attending the workshop. The engineers met with base Administrative Contracting Officers, Base Civil Engineers

and the UP System Owner (SO) for feedback. They also looked at contract records, invoices, transition period experiences, property records, and customer service records.

Overall, they are pleased with the results, noting that all bases reported positive UP experiences. Most locations have procedures in place to contact the SO directly, and in some cases, the SO is provided an on-base office. This means problems can be dealt with promptly. The engineers also found the SOs understand the mission at the different bases and are able to work around the base schedule to minimize impact. UP program managers believe the key to continuing success is to keep the lines of communication open.

AFCESA has identified several candidates for UP post-award visits in FY12 including March ARB, Niagara Falls ARS, Westover ARS, Goodfellow AFB, Laughlin AFB, Wright-Patterson AFB, Tinker AFB, and Dover AFB.

The UP program began in 1998 and now includes 55 privatized systems. The partnership between the Air Force and a utility company ensures utility systems at Air Force installations receive repairs, timely upgrades, and long-term recapitalization in accordance with industry standards.

AF Energy Office Creates Transparency

Mr. Tim Schwartz
SAF/IEN

"What gets measured gets done." – Peter Drucker

Fifty years after management guru Peter Drucker popularized the idea of management by objectives, the Air Force and DOD use metrics across all programs to drive performance, accountability, and ensure we are able to meet our mission to fly, fight, and win in air, space, and cyberspace. The Office of the Deputy Assistant Secretary of the Air Force, Energy (SAF/IEN) has taken metrics to a whole new level through a new Energy Dashboard which measures the extent to which Airmen make energy a consideration in everything they do.

A balanced energy strategy enables our warfighters, expands operational effectiveness, and enhances national security by ensuring the Air Force has the resources required to provide global vigilance, reach, and power that our nation depends on. Part of a balanced energy strategy is paying close attention to our consumption and minimizing waste wherever possible. To signal opportunities for energy savings and track consumption, the Air Force collects a range of energy usage metrics and compiles the information into one easily accessible source – the Energy Dashboard.

SAF/IEN's Energy Dashboard provides transparent energy program information from all levels of the Air Force – from the Secretariat level down to the MAJCOM and installation level. The tool can be used to find out how much energy is used on a particular installation, the allocation of vehicles throughout the Air Force, and the impact of renewable energy projects on our consumption profile. This tool, when combined with similar energy efforts in aviation, vehicles, and acquisition, allows all levels of users to make more informed decisions. Data is provided by installations and MAJCOMs and

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Transparency

validated through the the AFCEA prior to posting on the Dashboard.

SAF/IEN is executing a strong energy strategy through investments that increase energy supply and reduce energy demand. These efforts include the development of alternative jet fuels and construction of renewable energy projects to increase supplies of power that support the mission. Facility tune-ups, new technology, and internal process improvement will help the Air Force reduce its energy demand. But the greatest impact on the Air Force's energy usage comes from the actions of the 680,000 Active, reserve, civilian, and National Guard service members who make the smart decisions and develop the process efficiencies and technologies that make energy conservation a force multiplier. Your ideas and efforts are the key to our future prosperity and the Air Force needs your help.

In keeping with the communication tools of the 21st-century, the Energy Dashboard provides a blog where Airmen can provide ideas on how to improve the tracking of energy data. Every idea is read and their cumulative effect will guide and shape the Air Force for years to come. The Energy Dashboard can be accessed at <https://cs.eis.af.mil/af-energy/default.aspx>. Please take a look and share your ideas.



JB San Antonio Awarded for Energy Plan

Joint Base San Antonio energy team members received awards for development of the JBSA Operational Energy Management Plan. Developed under Maj Gen Len Patrick, former Commander, 502nd Air Base Wing, Fort Sam Houston, the comprehensive plan creates a road map for JBSA to meet and exceed Air Force energy directives. The group worked closely with a team from the Office of the Secretary of Defense to put the plan together over a period of several weeks. Awards were presented at the 502nd MSG/CC staff meeting by Brig. Gen. Theresa C. Carter, Commander, 502nd Air Base Wing, Fort Sam Houston.



Front Row: Mr. Ruben Ramos, Mr. John Gonzales, Mr. Dennis Seeger. Back Row: Mr. Jerry McCall, Mr. Monico Luna, Mr. Bruce Dschuden, Mr. Anthony Martinez, Mr. Frank Thomas, and Mr. Erick Hanson.

AFSPC Leadership Focuses on Energy

AFSPC Deputy Commander, Lt Gen Michael J. Basla, focuses on energy conservation in a new video presentation to his troops. Released in November, the video highlights the uniqueness of the AFSPC mission and its affect on facilities energy consumption. AFSPC is the most energy-intensive MAJCOM spending \$104M on energy last year, of which 97 percent was facilities consumption. AFSPC's energy intensity is 25 percent higher than the next nearest MAJCOM. Lt Gen Basla highlights facility infrastructure improvements in the video and emphasizes that occupant behavior can make a significant impact on consumption reduction. He asks AFSPC personnel to evaluate work processes to identify efficiency improvements; take charge of the consumption reduction of their work space; and submit ideas on facility improvements to Civil Engineering. The video can be viewed at www.afspc.af.mil.

Citizen Airman Puts Energy on the Cover

AFRC Energy Manager Mr. Sam Pier and AFRC Resource Efficiency Manager Mr. Ed Saleem are featured in the cover story of the *AFRC Citizen Airman*. "Energy Conservation: There are huge savings to be had when we all pitch in" can be viewed at <http://www.citamn.afrc.af.mil/features/story.asp?id=123273943>.



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