

"Make Energy a Consideration in All We Do"

ENERGY express

The Air Force Civil Engineer Center Energy Newsletter

June 2013

AFCEC's Industry Forum – BIG SUCCESS!

by Jennifer Elmore
AFCEC Public Affairs

The Air Force Civil Engineer Center opened its doors to representatives from 75 companies in May by hosting an Industry Forum here. The event gave military and industry leaders a chance to discuss public-private collaboration opportunities to help meet the Air Force's civil engineering needs.

The newly established field operating agency of the Air Force Civil Engineer Center held a similar event at its San Antonio, Texas, headquarters in January.

During the three-hour open house, visitors learned about AFCEC's mission – to provide civil engineering services and enterprise life-cycle leadership to Air Force installations that enable the warfighter.

The agency uses seven major contracts with billions of dollars of capacity to provide support in the areas of facility engineering, readiness, energy, environment, operations and installations.

AFCEC Director, Joe Sciabica, says there are several ways industry can partner with AFCEC.

"Job one is high-performance project delivery," he told the crowd. "We need your products and services at a fair cost, at the right quality and on time."

Sciabica said he wants to leverage industry expertise in technology, construction, maintenance and operations so the Air Force can be more efficient.

"Air Force civil engineering is getting back to the basics, while developing new strategies and capitalizing on new technologies that help us build sustainable facilities and infrastructure," said Sciabica.

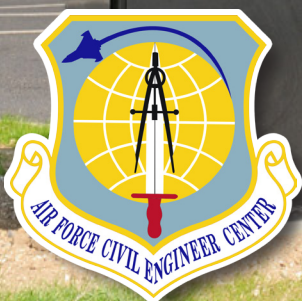
AFCEC wants to build sustainable installations using less energy, less manpower and lower life-cycle costs.

Industry representatives also heard from all three Tyndall-based directorate leaders including Col. Mike Mendoza, Readiness Director; Col. Andrew Lambert, Operations Director; and Ken Gray, acting Energy Director.

Gray discussed the energy group's mission, contract vehicles and funding mechanisms. "An area we intend to do more work in is third-party financed projects which would be Energy Savings

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FEATURE PHOTO: New barriers to aid and increase force protection are being installed around RAF Mildenhall, England. The new, "green" barriers are solar- and wind-powered and are saving the base thousands of dollars, as they do not run on electricity as other types of barriers do. They are used to filter and control vehicles, divide the base into sectors, and allow the flow of traffic around base to still run freely. (U.S. Air Force photo/Karen Abeyasekera)



BIG SUCCESS...

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Performance Contracts, Utility Energy Service Contracts and renewable energy Power Purchase Agreements."

AFCEC's Energy Directorate has 200 energy and water conservation projects planned at a cost of just over \$101 million in fiscal 2013.

Lambert said opportunities in the Operations Directorate are in strategic sourcing initiatives. AFCEC proposes products and services to consider for strategic sourcing to the Enterprise Sourcing Group at Wright-Patterson AFB, Ohio.

"One example is runway rubber removal and restriping of the paint markings on our runways," said Lambert. "Can we do this by aggregating everything we do across the Air Force, putting a more efficient contract in place and getting a better rate for it?"

The group is also evaluating roofing repair and maintenance.

AFCEC's Readiness Directorate is adding a Requirements and Acquisition Division to plan and execute research and

development programs for acquiring systems, equipment, technology and data, as well as provide an Air Force Contract Augmentation Program capability that provides rapid response civil engineer operational needs and requirements in support of expeditionary and in-garrison installations.

The new responsibilities come as the Air Force Research Lab, Tyndall AFB, makes plans to stand down in September. AFCEC readiness research will be a product, not an information-based, enterprise.

"We're interested in researching existing technologies and looking at ways to adapt them for our needs and not just doing a bunch of science projects," said Mendoza.

For example, the Air Force recently became the first in the country to use ultra-high pressure firefighting technology on fire trucks with the creation of the P-34 Rapid Intervention Vehicle.

"We'll focus on rapid prototype development and fielding," said Mendoza.

Airbase technologies to be evaluated include expeditionary smart shelter systems, grey water recovery, advanced airfield damage repair, expeditionary hazardous waste disposal, and many more.

"This is only the beginning," said Mendoza.

All AFCEC contract opportunities are posted on the Federal Business Opportunities website: www.fbo.gov.



Ken Gray, acting director for Energy at the Air Force Civil Engineer Center, speaks to a group at the recent Industry Day Forum held at Tyndall Air Force Base, Fla., May 7, 2013. Representatives from 75 companies learned about public-private collaboration opportunities with AFCEC in three of its mission areas —readiness, operations and energy. (U.S. Air Force photo/Eddie Green)

More than 100 representatives from 75 companies attended the Air Force Civil Engineer Center's Industry Day Forum held at the center's Tyndall Air Force Base, Fla., location on May 7, 2013. The event gave military and industry leaders a chance to discuss public-private collaboration opportunities to help meet the Air Force's civil engineering needs. (U.S. Air Force photo/Eddie Green)



A group of business leaders travel between presentations at the 2013 Industry Day Forum held by the Air Force Civil Engineer Center at Tyndall Air Force Base, Fla., on May 7. (U.S. Air Force photo/Eddie Green)

'Energy roadmap' earns AFSPC a SAME award

by Jennifer Elmore
AFCEC Public Affairs

Need some new ideas for invigorating your facility energy program? Take a page from Air Force Space Command's 'energy roadmap' which recently earned it the 2012 Society of American Military Engineers Sustainability Award for Education and Outreach. SAME presented the award at its Joint Engineering Training Conference in San Diego, Calif., May 24.

"The AFSPC energy team developed a comprehensive energy roadmap to drive toward energy goals such as Executive Order 13514; save millions of dollars; and update infrastructure and failing equipment," said AFSPC Energy Branch Chief Todd Wynn.

AFSPC's Energy Management Steering Group, chaired by the AFSPC Vice Commander and made up of all directorates, numbered Air Forces, the Space and Missile Systems Center and all Wings, developed the roadmap leading to several recent accomplishments.

Implemented an energy strategic communication plan.

Public Affairs used the information to post 18 articles on the internet and reach 5,000 Facebook fans and 80,000 AFSPC website visitors. Public Affairs also created a video hosted by the vice commander and distributed it to all AFSPC installations challenging Airmen to look for ways to save energy and water.

Emphasized energy management in all facility designs.

AFSPC made an example of its headquarters building, which houses 1,500 personnel, by replacing 30-year-old systems furniture with energy-efficient units that include LED task lighting. To complement the extensive facility improvements, AFSPC developed an aggressive energy policy establishing core hours of 6 am to 6 pm Monday through Friday. Lighting, heating and cooling are significantly diminished outside of these hours.

The command also installed LED overhead lighting in the building, a pilot test for the Air Force. According to Fox Theriault, energy analyst and LED project coordinator, the project is yielding approximately 50 percent energy savings in this area and has tremendously improved lighting distribution, while reducing maintenance. Currently, LED



Air Force Space Command is the first in the Air Force to centrally procure light emitting diode fixtures like this one. The \$4.9 million contract includes 6,600 LED street lights to be installed across the command. This is one of several energy initiatives that earned AFSPC the Society of American Military Engineers 2012 Sustainability Award for education and outreach. Awards were distributed May 2013. (U.S. Air Force photo)



A contractor installs a new light emitting diode street fixture at New Boston Air Force Station, N.H. It is one of 15 Air Force Space Command installations to receive the energy-saving lights. AFSPC centrally purchased 6,600 lights which will save \$975,000 annually on reduced operations and maintenance costs. (U.S. Air Force photo)

lights are only used outdoors but their test may pave the way for policy change.

Deployed high-efficiency exterior lighting command wide.

AFSPC took the lead for the Air Force by centrally procuring light emitting diode fixtures to replace older technology street and parking lot lights. The \$4.9 million contract includes 6,600 LED fixtures to cut energy use in half and reduce operations and maintenance costs by \$975,000 annually.

Examined energy intense mission activities.

Unlike most major commands where aircraft fuel dominates the energy consumption, in AFSPC facility 'plug-load' plays a larger role. The command looked at procedural ways to save energy such as ensuring energy conservation is part of the acquisition process when replacing weapons systems.

Reduced energy use at its top two most intensive geographically separated units.

AFSPC earned support and funding from the offices of the Secretary of the Air Force and Secretary of Defense to reduce energy consumption at Thule Air Base, Greenland, and Clear Air Force Station, Alaska. For example, a \$15.3 million project will connect Clear to the electric grid, decommission a 50-year-old oversized power plant and save 659,561 million BTUs annually.

Developed and deployed energy management systems at Thule AFB and New Boston AFS, N.H.

The new systems monitor and control energy consumed by facility systems such as heating and cooling systems and will save \$3 million and 115,000 million BTUs annually.

"AFSPC is the command to be with as we reach out to implement new and cutting edge technologies in the civil engineering world," said Col. Joseph Schwarz, the command's Deputy Director for Installations and Mission Support.

Power in numbers

Partnership and Outreach Steering Group needs your help

Commentary by Lt. Gen. Douglas Owens

Air Education and Training Command Vice Commander

One of the great things about the American people is their ability to rally and even sacrifice in a crisis. When it comes to energy conservation, there have been several notable periods in American history when the American people willingly incorporated small daily changes into their lives to preserve resources for the greater good. For instance during World War II, fuel and even food was rationed. And during the oil crisis of 1973 and again in 1979, people adjusted thermostats and slowed down to lower driving speeds to conserve energy. When it comes to energy conservation in our Air Force today, we need that same level of commitment from our Airmen. And when I say Airmen, I also mean civilians, contractors, families - all of us. Every dollar not wasted on excessive energy is another dollar that we can put to better use elsewhere in order for us to accomplish our mission.

When it comes to energy conservation, the "little things" do matter. Such as turning off computer monitors and lights and keeping the thermostat at a reasonable temperature. While I applaud those already making energy saving choices, we need to do more. The change we need is for Airmen to take a look at their work center and the processes they manage, and to really scrutinize the use of energy and make changes to increase energy efficiency. Each of you are subject matter experts in the field and you know your work center better than anyone. If each Airman can make a small change to increase efficient energy use in the work center and make the action habitual, the impact would be remarkable. That impact wouldn't just stop at the work center or here at the Air Education and Training Command Headquarters, these ideas could be shared and adopted by other Airmen across our service. We can turn that small impact into larger savings throughout the Air Force. There is power in numbers.

As part of the energy conservation effort here, we've partnered with the Secretary of the Air Force Installation Energy office to stand up a Partnership and Outreach Energy Steering Group, with AETC serving as the MAJCOM champion. Three working groups exist within this steering group: strategic communications, external engagements and education and training. Strategic communications has been developing and implementing various energy and communication themes, messages and awareness



campaigns to communicate Air Force energy priorities to our personnel and those outside the Air Force. The second group, external engagements, establishes and facilitates cooperation between U.S. and international partners on energy security issues. The third working group is education and training, AETC's primary mission. This group is tasked to focus on educating and training military and civilian personnel to think about energy wisely. In essence, the group's charge is to incorporate energy awareness into Air Force training and education programs within the command.

The education and training group took a threefold approach by focusing on

three key areas: energy awareness, energy conservation and energy security, all in an effort to change Air Force culture. The group found that many of our training and education venues are lacking instruction about energy. Energy education doesn't have to involve inserting a whole new block of instruction into a lesson plan. It's about focusing our mindset to look at how tasks are currently being done and coming up with the energy smart way of accomplishing them. Currently, the group is identifying schools and Air Force Specialty Codes that could benefit from this energy culture change.

Although these are all great efforts, this outreach could be much, much larger with your help. I encourage every Airman to take this opportunity to really evaluate your work center and find better ways to save energy. The bottom line is that a strong energy posture enables our war fighters, expands our operational effectiveness, and enhances our national security. With your help, we can identify and adapt tools and practices to decrease energy consumption and improve energy efficiency. There truly is power in numbers - and power in the will of Airmen to pitch in together to conserve energy.



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Watts Happening

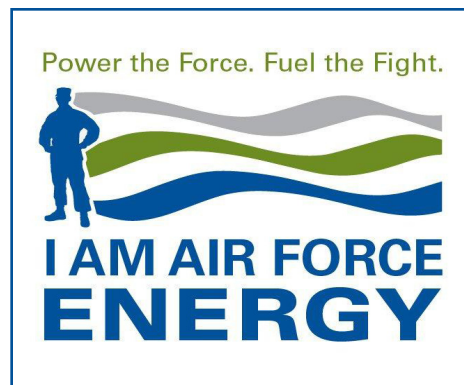
New energy leader sworn in

Under Secretary of the Air Force Eric Fanning was sworn in by Secretary of the Air Force Michael Donley during a formal ceremony May 31, 2013, at the Pentagon. In his duties, Fanning will serve as the senior Air Force energy official and will be responsible for the efficient and effective management of Air Force resource. Additionally, he will serve as the focal point for space operations, policy and acquisition issues on the Air Force staff. (U.S. Air Force photo/Scott M. Ash)



Energy Action Month

Planning has begun for this year's Energy Action Month (EAM) in October. Energy POCs from A7C/CEN, A7CI Strategic Communications and the Air Force Civil Engineer Center are participating in bi-weekly meetings with the Secretary of the Air Force (SAF) Energy Office, SAF Public Affairs and AF/A4L to plan EAM events and coordinate promotional opportunities. More information will be made available as EAM approaches. Visit the Air Force Energy Program Facebook page at: www.facebook.com/AirForceEnergy



Another Edwards AFB solar array proposed

AFCEC has forwarded a Notice of Intent package for a proposed solar project at Edwards Air Force Base to AF/A7CII for review, coordination and publication in the Federal Register. The NOI announces the Air Force's intent to complete a joint Environmental Impact Statement/Environmental Impact Review with Kern County, Calif., to evaluate the environmental impacts of an Enhanced Use Lease renewable energy project at Edwards AFB. The project has the potential to generate between 150-450 megawatts of solar renewable energy. A 30-day public scoping period will begin upon publication of the NOI in the Federal Register.

Three solar farms at Edwards Air Force Base, Calif., each provide one megawatt to the base power grid – a drop in the bucket compared to the 150 - 450 megawatts a proposed Enhanced Use Lease could provide. (U.S. Air Force photo/Rob Densmore)



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