

I AM AIR FORCE ENERGY: Your Role in Sustaining an Assured Energy Advantage in Air, Space and Cyberspace

Why is Energy Critical to Energy Managers?

- Energy Managers play a critical role in helping the Air Force reduce its more than \$9 Billion energy bill.
- ↗ As good stewards of taxpayer funds, energy professionals must do their part to increase savings while enhancing mission readiness.
- Energy experts are responsible for energy innovation and have the opportunity to drive unique solutions that increase energy security.
- Every watt of electricity we save through efficiency is one less we need to reconstitute in the event of a disruption in supply.

What is the Air Force Doing?

- Developing new and innovative methods of energy use. These have resulted in Air Force personnel receiving 29 Federal Energy Management Program (FEMP) awards from the Department of Energy in the last five years – more than all other Services combined.
- Installing meters, energy management control systems, occupancy sensors and lighting upgrades as well as other building recommissions and energy-efficient initiatives to reduce energy intensity 22.3% since 2003.
- Initiating trainings, on-base energy events and other engagement activities at 74 bases around the world as part of 2013 Energy Action Month, including 30 competitions to raise awareness of energy's impact to the mission and encourage Airmen to consider energy use in all they do.

AIRMEN IN ENERGY



Capt. Reid Touchberry, Energy Manager, Misawa AFB

- Capt. Reid Touchberry transitioned transitioned Misawa AFB in Japan to a new lower level of energy usage following the March 2011 tsunami. Initiatives included:
- Created the Base Energy Nerve Cell, a direct response to the tsunami recovery efforts, to restore power on the base.
- Developed a long-term contingency plan to improve base resiliency through the ready activation of multiple source largescale mobile generator sets.
- Established a real-time indoor climate regulation policy that balanced individual comfort, energy conservation and operational needs.
- His team's efforts saved 5.7 Million kilowatt hours and \$1.4 Million while ensuring the base was able to continue to support the mission.

FORCE ACCOMPLISHMENTS



- The Energy Team at Dyess AFB (pictured) installed 63,000 sq. ft. of ceramic beading on roofs and walls of facilities on base, and installed 2,600 occupancy sensors to monitor lights and temperature settings in 84 buildings. Their efforts were recognized with a FEMP award in 2012 for saving \$1.8 Million in FY2011 and additionally reducing greenhouse gases by 5,381 tons.
- ↗ USAFE Energy Manager Kelly Jaramillo coordinated a comprehensive MAJCOMwide energy program across 10 bases, including 46 projects that are estimated to save more than \$5 Million a year. She actively engaged military families through training and education that resulted in a 25% reduction in electricity and 17% reduction in natural gas in the first quarter of FY2012.



"Energy is a fundamental component of all Air Force operations. The smart use of energy means flying our aircraft farther, transporting more cargo and accomplishing our mission in a more efficient and effective way."

Deborah Lee James Secretary of the Air Force Mark A. Welsh III General, USAF; Chief of Staff James A. Cody Chief Master Sergeant of the Air Force

DO YOUR PART



JB Elmendorf-Richardson AFB, Alaska Survey facilities and repair leaks in water supply and

distribution pipelines. JB Elmendorf-Richardson saved 48% in water usage in 3 years by replacing leaking water pipes.

Hill AFB, Utah

Replace outdated appliances with ENERGY STAR models and install efficient plumbing fixtures in dorms and facilities. **Hill AFB upgrades reduced energy consumption 39% in 2011.**

Minot AFB, North Dakota

Incorporate efficient technologies such as ground source heat pumps in lieu of aging central heat plants. Minot AFB saved 114 Billion BTUs and 16 Million gallons of water in FY09 by installing ground source heat to 25 buildings.

Maxwell AFB, Alabama

During Energy Action Month

partner with your local utility

Airmen, staff and families on

energy. In 2012, Maxwell AFB

partnered with 3 utilities, state and local government to host

an Energy Expo that garnered

media attention.

and community to educate

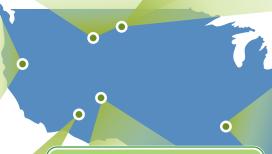
Vandenberg AFB, California

Retrofit buildings on base with electric meters to monitor energy consumption levels. Work with the Energy Directorate at the Air Force Civil Engineer Center for meter requirements. **Energy managers at Vandenberg AFB installed over 500 electric meters that reduced energy intensity 16%**.



Kirtland AFB, New Mexico

Set up a competition between dorms or facilities to see who can conserve the most energy. A dorm competition at Kirtland AFB resulted in a 15% reduction in consumption.



Peterson AFB, Colorado

Collaborate across organizations to address challenges in all areas of energy consumption. Through its Energy Manager Steering Group, Peterson AFB reduced energy intensity 29% and fleet petroleum consumption 11%.

Kunsan AFB, South Korea Misawa AFB, Japan

Provide energy training as part of newcomer briefings. **Misawa and Kunsan AFB educated more than 300.**



To submit your energy idea, visit Airmen Powered by Innovation on the AF Portal



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