

OEI News

October/November 2016



SECURING ARMY INSTALLATIONS WITH ENERGY THAT IS CLEAN, RELIABLE AND AFFORDABLE

From the Desk of the Executive Director: *Advancing Army Energy Resilience for Energy Action Month and Throughout the Year*

I invite you to participate in the observance of National Energy Action Month this October. Of course, within the Army Office of Energy Initiatives (OEI) we promote large-scale renewable and alternative energy projects all year long to help ensure energy security for Army installations. But this month, we renew our commitment to also focus on energy efficiency and sustainability in all that we do.

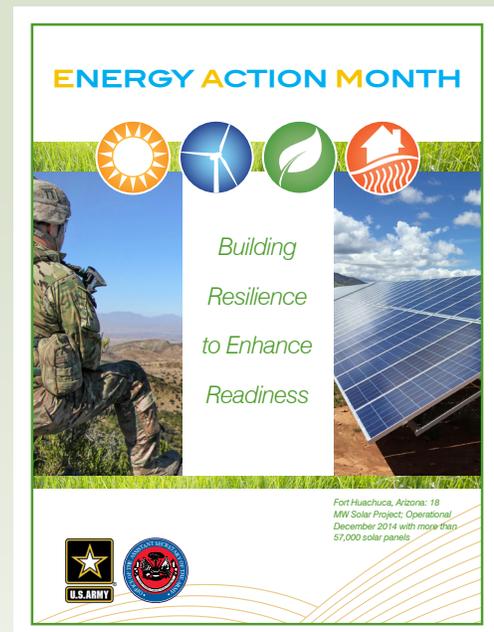
We understand the best and first step we can take toward ensuring energy for mission use is conserving energy wherever possible. Looking for ways to save energy, and being more efficient in the use of energy—for powered devices, lighting, heating and cooling, and vehicles—is something we all should practice daily. Taking individual action and talking to your team about the importance of energy efficiency is an opportunity to lead by example and share best practices that can provide positive impact across the Army. Energy helps us be Army Strong!

Throughout October, the OEI will be participating in several events, posting energy awareness information on our website, sharing information with key stakeholders, and communicating energy saving tips.

My OEI colleagues and I attended the 3–5 October Association of the United States Army (AUSA) annual meeting at the Walter E. Washington Convention Center in Washington, D.C. We met with installation, garrison and industry representatives. This is always a very informative event for Soldiers, Civilians, Families, and Industry partners alike. See the article on page six for additional information.

– **Michael McGhee**
Executive Director
Army Office of Energy Initiatives

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DoE Energy Exchange 2016

One way the Army explores new, innovative methods for advancing energy initiatives and goals is by participating in events like the 2016 Energy Exchange, an educational and networking forum hosted annually by the Department of Energy's Federal Energy Management Program (FEMP).

This summer's Energy Exchange was nothing short of outstanding. Army representatives shared best practices and provided updates on large and small-scale energy initiatives. The event brought together federal government and industry representatives along with experts from various technical disciplines who discussed cost-effective, actionable ideas for meeting federal energy goals. The Army OEI Executive Director, Michael McGhee, participated in three panel discussions alongside other Department of Defense and industry representatives. These panels provided an excellent dialog between industry and government stakeholders and highlighted further collaboration opportunities to increase energy security and resilience for military bases and the local communities.

During the Closing Plenary Session, the Secretary of the Army, Hon. Eric Fanning recognized multiple government agencies for their focus and accomplishments in their energy initiatives. He also made a significant announcement on the Army's success toward meeting President Obama's Performance Contracting Challenge, applicable to all federal agencies. The challenge calls for \$4 billion in Energy Savings Performance Contracts (ESPC) and Utility Energy Service Contracts (UESC) by December 2016. The Army has done tremendous work with both ESPCs and UESCs, contributing \$1 billion to the government-wide response to the President's challenge.

In addition, Secretary Fanning also announced an aggressive and noteworthy goal for Combined Heat and Power (CHP) project initiatives, which generate both electricity and thermal energy. "I'm committing to a doubling of the amount of CHP produced by the Army in the next two years, and to triple it in four years," said Fanning. "That means we will add 50 megawatts per year through CHP projects, which is more than what the Army has added in the past ten years combined." Assistant Secretary of the Army for Installations, Energy and Environment, Hon. Katherine Hammack echoed Secretary Fanning's commitment to doubling the Army's renewable energy efforts in the coming years. "We are expanding collaboration with industry, academia, and other Federal agencies to develop sustainable and resilient solutions," said Hammack. "I believe that by working collaboratively with all stakeholders we will continue to identify significant opportunities and ensure Army installations are the readiness platforms for winning in a complex environment."

Next year's Energy Exchange will be held in Tampa, Fla., in August 2017.



Secretary of the Army Fanning provides remarks at the 2016 Energy Exchange

October is Energy Action Month

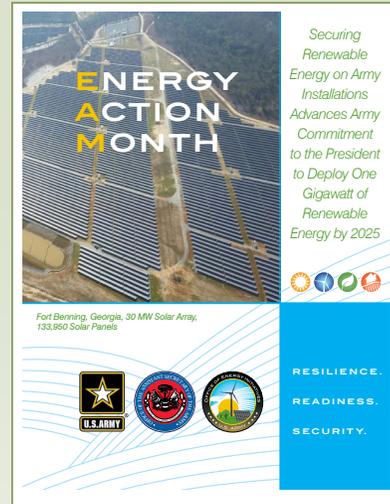
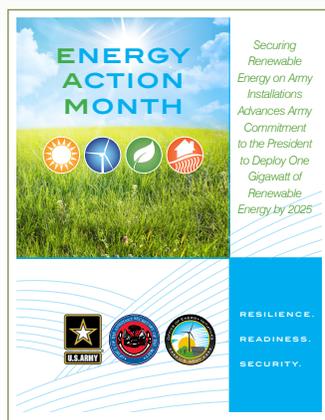
Building Resilience to Enhance Readiness

The Army OEI is engaging in a month-long observance of energy awareness during October, in support of Energy Action Month 2016. The National Energy Action Month, formally created by the White House in 2009, seeks to highlight how important energy is for everything we do. The Departments of Energy and Defense adopted the observance of Energy Action Month and the Military services actively participate and support this engagement each October. In addition to participating in Energy Action Month, the Services actively work to reduce energy consumption year-round.

Energy is key to everything the Army does. Energy supply shortfalls and power distribution outages, whether caused by acts of man or acts of nature, represent a strategic vulnerability and increase the risk to Army missions.

Energy Action Month provides the Army an opportunity to communicate and reinforce the importance of energy conservation and to raise awareness of the Army's energy initiatives and progress in an effort to enhance installation resilience and energy security.

For the entire month of October, the Army OEI is engaging in activities in support of Energy Action Month to raise awareness, share best practices, identify innovative ways to increase energy efficiency, and reaffirm the Army's commitment to energy priorities.



Energy Action Month Poster spotlighting the Fort Benning, Ga., 30 MW Solar Array, 133,950 Solar Panels

The Army has a strong legacy of implementing large and small-scale energy projects. A notable resource, located on the ASA(IE&E) website, is the Army's Energy Security and Sustainability (ES2) Strategy, which provides a strategic roadmap to future energy security and sustainability. The ES2 Strategy focused on building the overall resilience of Army installations and is designed to guide the Army's use of energy, water, and land resources well into the 21st Century.

Energy Action Month is a time to demonstrate that even the smallest effort to save energy can substantially reduce cost and our energy dependence. By continually encouraging responsible energy actions, reducing demands on energy resources, investing in increased efficiency, and diversifying energy supplies, we can all help support the Army's and the nation's energy security and sustainability.

Through October Energy Action Month observance and awareness events we can advance support for the Army's missions and further contribute to meeting the Army's energy goals throughout the year. This is an opportunity to lead by example and to renew our commitment to energy security and efficiency.

ENERGY ACTION MONTH

Building Resilience to Enhance Readiness



Army Energy Facts

- Army promotes facility resiliency and resource efficiency through planning and decision-making processes and by designing buildings to Leadership in Energy and Environmental Design (LEED) Silver level standards.
- The Cross Laminated Timber (CLT) Lodging, in Redstone Alabama is the first facility using cross laminated timber to be built in the United States. It's a LEED compliant design with an estimated 27% energy reduction and 1,640 tons of stored carbon.
- The Army has over 360 MW of large-scale renewable energy projects in development or being executed.
- The Army is working to meet its commitment to the President to deploy one GW of renewable energy by 2025, which is enough to power approximately 250,000 homes.
- In August 2016, the Army committed to developing 50 MW of Combined Heat and Power generation facilities (which provides energy 20% - 30% more efficiently than conventional technologies) per year over the next two years.
- Over the last five years, the Army has reduced petroleum consumption by over 40%, approximately 8% per year.

Energy Saving Tips For Everyone

- In the summer, ensure your ceiling fan blows air downward -it costs only \$2 a month to use ceiling and other fans to circulate air.
- Wash clothes in cold water to save electricity and money.
- Install a programmable thermostat to save up to 10% on cooling and heating costs.
- Replace old bulbs with high efficiency light bulbs to reduce energy use to as much as 80%.
- Look for the Energy Star label, the government's symbol of energy efficiency, on a wide range of consumer products to save up to 30% on related electricity bills.
- Seal window and door frames and other areas in homes and offices to save up to 20% on heating and cooling bills, while also increasing home comfort.
- Replace seals on toilets, fix dripping faucets and other leaks which waste over 10,000 gallons of water per year. Ten gallons per day of your water footprint, or 14% of your indoor use, is lost to water leaks.
- Every ton of paper recycled saves 17 trees and keeps 7,000 gallons of water free from chemicals
- Consider bringing your own shopping bags to the grocery store. Americans annually use one billion shopping bags, creating 300,000 tons of landfill waste; which is equal to the same amount of petroleum to drive from New York City to Los Angeles and back 3.8 times.
- When landscaping, select low water use plants and save up to 550 gallons of water each year.
- Turn off your computer monitor at the end of each day. It costs approximately 21 cents per day, or about \$75 per year when computers are left on all day.
- Switching to just one energy efficient light bulb in every American home could save enough energy to light three million homes for one year.

Increasing Resilience through Energy Security

Army Groundbreaking --50 Megawatt at Schofield Barracks, Hawaii

On August 22, 2016, the Assistant Secretary of the Army for Installations, Energy and Environment (ASA(IE&E)), and the U.S. Army Garrison-Hawaii (USAG-HI), in collaboration with Hawaiian Electric Company, conducted a groundbreaking ceremony for the 50 megawatt (MW) multi-fuel renewable energy project at Schofield Barracks, Hawaii. Congressional Members and the Governor along with other stakeholders participated in the event.

The project is anticipated to be operational by Spring 2018 and will run on a mixture of biofuels and conventional fuels.

Situated approximately 900 feet above sea level and away from possible coastal effects of storm surges, this project will provide “black start” capability and deliver greater emergency preparedness capabilities, enhance the resilience of the Oahu electrical grid, and provide Schofield Barracks, Field Station Kunia, and Wheeler Army Air Field with secure and reliable renewable energy generation.



Hon. Katherine Hammack, ASA(IE&E) provides remarks at the Schofield Groundbreaking Event on 22 August 2016

“Secure and reliable access to power mitigates risk and allows the Army here in Hawaii to carry out critical missions and support surrounding communities,” said Hon. Katherine Hammack, ASA(IE&E). “This project is a key contributor to Army readiness and resiliency.”



US Army Corps of Engineers.

Hawaiian Electric
Maui Electric
Hawai'i Electric Light



Traditional Hawaiian blessing performed for the Schofield Barracks Generating Station by Kahu Kordell Kekoa, including (left to right) Chaplain (Col.) Steve Peck; President John Polischeck, American Piping and Boiler Company; Vice President Ron Cox, Power Supply, HECO; Federal Chief Sustainability Officer Christine Harada, White House Council on Environmental Quality; Senator Brian Schatz; Garrison Commander Col. Steve Dawson, USAG-HI; Governor David Ige; Hon. Katherine Hammack, ASA(IE&E); President and CEO Alan Oshima, HECO; Senator Mazie Hirono; Representative Tulsi Gabbard Hawaii -2nd Congressional District; Energy Manager Keith Yamanaka, USAG-HI; and Senior Vice President and General Manager Rick Halil, Energy, Burns & McDonnell Engineering (Photo credit: HECO)

Army Representatives at the 2016 AUSA

Each October, the Association of the United State Army (AUSA) holds an annual meeting - attracting over 26,000 Military and family members along with federal and industry attendees. This year's event featured informative presentations, professional development events, panel discussions on pertinent military and national security topics, and workshops. In past years, attendees have heard from former and current Chairmen of the Joint Chiefs of Staff, Secretaries of Defense, Chiefs of Staff and Secretaries of the Army on topics ranging from Energy Efficiencies, Soldier and Family Readiness, and Cyberspace and Cybersecurity.

This year's annual meeting provided numerous professional development opportunities that support America's Army - Active, National Guard, Reserve, Civilians, retirees, Wounded Warriors, Veterans, and family members. The event took place October 3 -5 at the Walter E. Washington Convention Center, Washington D.C.

On October 4th, Hon. Katherine Hammack, assistant secretary of the Army for Installations, Energy and Environment led a panel entitled "Installations: The Army's Platform for Readiness." Panel Members included:

Army Installation Management Command Commanding General Lt. Gen. Kenneth R. Dahl; U.S. Army Corps of Engineers Chief of Engineers and Commanding General Lt. Gen. Todd T. Semonite; Assistant Chief of Staff for Installation Management Lt. Gen. Gwen Bingham; City of Dallas Chief Resilience Officer Teresa O'Donnell; Pennsylvania State University Professor Dr. Patrick McDaniel; and Built Environment Coalition Chief Execution Officer and President Dr. Sarah Slaughter.

More than 100 Senior Army Leaders and subject matter experts representing the Army's Installation Management Community were available to discuss installation management and making our installations the Army's home. Meetings took place with Soldiers and Families as well as local, state, regional and national participants of AUSA's annual meeting.

In addition, the Army's OEI Executive Director Michael McGhee hosted a "Meet the Team" session on October 4th and the OEI's Opportunity Development Director also met with several industry attendees. These sessions provided a great opportunity for the OEI to meet with industry and installation / garrison representatives and discuss energy initiatives.

For information on AUSA, visit: <http://ausameetings.org/2016annualmeeting/>

Upcoming Events:

- City of Huntsville Alabama Energy Summit: November 15 - 16, 2016
- Fort Gordon, GA: Renewable Solar Project Ribbon Cutting, November / December 2016
- Fort Stewart, GA: Renewable Solar Project Ribbon Cutting, November / December 2016



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