OEI News

November/December 2014

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

From the Desk of the Executive Director

Energy Awareness & Cyber Security

I hope everyone was aware of and did something to promote October Energy Awareness Month. This year, the Army's energy mantra is "Energy Action = Mission Success." I am happy to report the Office of Energy Initiatives (OEI) team is proactively spreading the word, taking action, and implementing change in support of energy awareness. In addition to participating in several speaking and press events during Energy Month, the OEI released two Requests for Proposals (RFPs) for large-scale, renewable energy projects. We also held a signing ceremony for the largest project to date in the Army's Renewable Energy portfolio (see related stories in this Newsletter).

October was National Cyber Security Awareness Month, too. You most likely have heard recent media reports about private photos being hacked. Perhaps you were issued a replacement credit card after your bank or retailer's records were breached. As you might expect, the U.S. Army is similarly concerned about cyber security and protecting energy generation and delivery.

Our Army installations require secure and reliable energy to accomplish their missions whether to provide reach-back for combat operations, train forces to maintain readiness, or stage platforms for humanitarian and defense missions. Renewable Energy Generation Systems (REGS) located within our installations' perimeters contribute to resiliency, but in times of national or regional emergencies, energy supplies must be both physically secure and cyber secure. Projects overseen by the OEI require safeguards to mitigate vulnerabilities. The National Institute of Standards and Technology (NIST) Special

continued on page 2

INSIDE THIS EDITION

Executive Director from page 1

Publication 800-82 addresses these and other industrial control system concerns.

REGS on our installations have two primary cyber vulnerabilities. One vulnerability is a denial of service. Our objective is to prevent disruptions of REGS, smart grids, or distribution systems so we have the electricity to perform our critical missions. Therefore, OEI solicitations and resulting contracts require compliance with Federal Energy Regulatory Commission (FERC) and North American Electric Reliability Corporation (NERC) critical infrastructure protection standards.

A second vulnerability is REGS that are connected to an Army network. The Army requires any computer, information system, or programmable device to be certified by the Army Chief Information Office (CIO/G6) prior to connecting to an Army network. As a result, developers of REGS that include such connections will need to allow for time and resources to secure certification.

The Army considers the resiliency of our installations very important and enhancing energy security is part of the founding mission of the OEI. REGS projects add to the resiliency of our installations by providing an alternate source of power in sufficient amounts to handle critical operations. These projects must be secure to ensure access to power remains available during times when it is needed most. To confirm necessary protections are in place, language requiring these protections is included in all OEI and Army energy contracts with project developers.

– **Amanda Simpson**, Executive Director, Army Office of Energy Initiatives

Fort Drum, New York: The Army's Largest Renewable Energy Project

From left to right during the signing ceremony: Honorable Katherine Hammack; ASA(IE&E), BG Michael Howard, Acting Senior Commander of Ft. Drum; Brig Gen Mark McLeod, Commander of DLA Energy; Standing – Sen Kristen Gillibrand and Sen Chuck Schumer; Mr. Larry Richardson, CEO of ReEnergy; Mr. Richard Kidd, DASA-E&S; Mr. Davis Tindoll, Director IMCOM Atlantic Region; COL Gary Rosenberg, Garrison Commander, Ft. Drum; & Ms. Amanda Simpson, Executive Director of the Army Office of Energy Initiatives.

A signing ceremony at Fort Drum recognized the provisioning, production, and delivery of 100 percent of the installation's electricity requirements from an on-site renewable energy Biomass Generation Facility (BGF). The project resulted from collaborative efforts between OEI, the Defense Logistics Agency (DLA) Energy, Fort Drum, the US Army Corps of Engineers (USACE) and ReEnergy LLC. The Assistant Secretary of the Army for Installations, Energy and Environment, Honorable Katherine Hammack, co-hosted the event with the Acting Senior

continued on page 3

Fort Drum, New York from page 2

Commander for Fort Drum, BG Michael Howard. Other participants included Senators Schumer and Gillibrand from New York, Brig. Gen. Mark McLeod, the Commander of DLA Energy, Mr. Larry Richardson, chief executive officer of ReEnergy, and Mr. Richard Kidd, the Army's senior energy executive.

The project will provide the Army with budget predictability by ensuring a pre-negotiated price for the supply and delivery of electricity from the on-site BGF over the term of the contract. Additionally, it will help the Army reach its goal to deploy 1 gigawatt of renewable energy projects by 2025.

October RFP Updates

Fort Hood, TX

The proposed large-scale renewable energy project at Fort Hood, Texas combines the purchase of electricity from an onsite generation asset with offsite renewable energy. The onsite solar renewable energy generation system is expected to produce up to 40 megawatts of electric power, which the Army will purchase for a price at or below projected utility rates. The energy purchased from the onsite solar system will be combined with wind energy produced offsite to strengthen economic viability. DLA Energy, in coordination with OEI and Fort Hood, issued an RFP for the project on October 17th and conducted an Industry Day November 6, 2014. A Notice of Intent to Award (NOIA) is anticipated in mid-2015.

Redstone Arsenal, AL: Combined Heat and Power (CHP)

The Redstone Arsenal (RSA) large-scale, renewable energy project is expected to produce steam required by the installation plus 160,000 MW/year of electric power for dedicated installation consumption. USACE-Huntsville, in coordination with OEI and RSA, released an RFP on October 24, 2014. An Industry Day was held on November 13, 2014, and a NOIA is anticipated in mid-2015.

Project Deactivation: Fort Stewart / Georgia Power Advanced Solar Initiative

USACE Savannah District (USACE-Savannah), in coordination with OEI and Fort Stewart, deactivated the planned 18 MW solar PV Enhanced-Use Lease (EUL) project at Fort Stewart, GA, as none of the Army-qualified developers were selected under the Georgia Power Advanced Solar Initiative (GPASI). OEI offered non-excess available Army land for the third-party development of a solar facility. The selected lessee was to construct, own, and operate a solar facility and sell the electricity to Georgia Power. Developers meeting the Army qualifications were also required to be selected by Georgia Power.

Army Power and Energy Panel at AUSA "Resilient Installations: A Platform for Power Projection"

On October 14, 2014, Honorable Katherine Hammack led a panel discussion at the Association of the United States Army (AUSA) to outline the Army's vision for energy and resource resilient installations as a platform for Power Projection. HON Hammack was joined by Sergeant Major of the Army Raymond F. Chandler III; LTG David Halverson, Assistant Chief of Staff for Installation Management (ACSIM) / Installation Management Command (IMCOM); LTG Thomas P. Bostick, Chief of Engineers/Commanding General, USACE; Dr. Timothy Unruh, director, Federal Energy Management Program (FEMP); Mr. Steven Chuslo, Executive VP & General Counsel, Hannon Armstrong; and Mr. Chris Womack, president of external affairs and executive vice president of Southern Company.

HON Hammack and the senior leaders promoted an understanding of the Army's progress in the resiliency effort, and how interplay with the private sector is critical to the Army's success.

Office of Energy Initiatives Website Transition Challenges

We sincerely appreciate your patience as we work through the transitioning process for updating our OEI website. We have implemented changes to provide timely updates in the future. For OEI project and event information visit www.oei.army.mil.

The New OEI Team

The OEI Support Services Contract team members include Value Recovery Holdings (VRH), Calibre Systems, Jones Lang LaSalle, Concurrent Technologies Corporation (CTC), Terranear, Scully Capital and McGowan & Associates.

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OEI News is published bi-monthly. It is a publication created to inform and engage stakeholders regarding OEI's large-scale renewable energy projects and current hot topics.

To continue the discussion and follow OEI projects on social media, please use #HOOAHenergy.