OEI News

September/October 2014

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

From the Desk of the Executive Director

Office of Energy Initiatives (OEI) Established

I am excited to announce that the Secretary of the Army John McHugh signed a directive to establish the Office of Energy Initiatives (OEI) with an effective date of October 1, 2014. The OEI will continue the ambitious efforts of the Energy Initiatives Task Force (EITF) which was established in September 2011. As an enduring organization within the Deputy Assistant Secretary of the Army (Energy and Sustainability) (DASA (E&S)), which is part of the Office of the Assistant Secretary of the Army (Installations, Energy and Environment) (OASA (IE&E)), the OEI will serve as the Army's central management office for the development, implementation and oversight of all third-party-financed, large-scale (greater than 10 megawatts) renewable and alternative energy projects.

In addition to the new and permanent OEI Office, our website also transitioned to www.oei.army.mil. The OEI website provides stakeholders with current information on our large-scale renewable energy projects, initiatives, news and events. A link to the OEI website is located on the (OASA (IE&E)) website, and contains information on upcoming project milestones and significant events, including October Energy Awareness

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OFFICE OF ENERGY INITIATIVES

Securing Army installations with energy that is clean, reliable and affordable

Ms. Amanda Simpson, EITF Executive Director discusses Army renewable energy and energy security with other attendees at the July 30, 2014 Tattoo at Fort Myer, Virginia.

US Army Photo by SPC Joel LeMaistre/ Released

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Month. We have also transitioned our Facebook, Twitter and LinkedIn accounts.

"OEI News" will continue to keep stakeholders informed about our large-scale renewable projects. This edition highlights the existing projects in our portfolio and upcoming events. As you will see, OEI is continuing to move at a vigorous pace to develop large-scale renewable energy projects that enhance mission effectiveness and achieve energy security across our Army installations.

One year ago, "EITF News" provided updates on five EITF projects in the acquisition phase. Those projects totaled 130 MW from a mix of biomass, biodiesel and solar. In this edition of "OEI News", we are providing updates on all of the projects we are currently developing. The first 13 projects listed represent nearly 350 MW of biomass, biodiesel, solar and wind projects under construction or are in the contracts and agreements phase. The list continues with another dozen projects, totaling approximately 200 MW of renewable energy generation, which are in earlier phases of development. As always, the OEI evaluates potential projects recommended by various sources, including installations and industry.

I look forward to seeing you and continuing our open dialogue at upcoming events such as the annual meeting of the Association of the United States Army (AUSA), the Army Energy Panel on October 14th, a specific project event, or an industry conference during October Energy Awareness Month.

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

OEI Project Updates

Note: All project sizes are listed in alternating current (AC) as the Army consumes and purchases AC electricity. Direct current (DC) production of solar arrays may be of a larger value to account for conversion losses.

Fort Huachuca, AZ — ~ 18 Megawatt (MW) solar project

- Acquisition model is a utility services agreement through an existing General Services Administration (GSA) Areawide contract with Tucson Electric Power
- Groundbreaking ceremony on the 70-acre site was held on April 25, 2014
- Project uses a streamline interconnection with the Fort Huachuca substation to reduce interconnection costs and improve system reliability
- Construction is well underway and a Ribbon Cutting is planned in early 2015

The first of ~57,000 panels emplaced at Fort Huachuca Arizona, ~18 MW project August 2014

Fort Huachuca Solar Project
~1,000 panels mounted per day, September 2014

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OEI Project Updates from page 2

Fort Drum, NY — 28 MW biomass project (100% of installation load)

- Acquisition model is a 20 year electricity purchase
- Contract with ReEnergy Holdings LLC was executed on September 29, 2014
- Project will exceed 100% of Fort Drum's peak load electricity requirement of 28 MW
- Provides energy security and budget certainty by ensuring a negotiated price for electricity
- Located on Fort Drum, ReEnergy owns and operates the facility, which was converted from a coal to biomass facility
- An event is planned for October 30, 2014

Black River Biomass Plant at Fort Drum NY
Photo released by ReEnergy Holdings LLC

Fort Detrick, MD — 15 MW solar project

- Acquisition model is an electricity purchase with a lease
- Defense Logistics Agency (DLA) issued a Notice of Intent to Award (NOIA) to the developer Ameresco Inc. in November 2013
- Agreements will result in a cost savings over the 25-year term
- The solar system is designed as "micro-grid ready" so that it may be connected to a future micro-grid and support the overall energy security of the installation
- Fort Detrick is the sole off-taker of all power from the project
- Agreements are anticipated to be executed in Calendar Year (CY) 14

Fort Irwin, CA — ~ 15 MW solar project

- Acquisition model is an electricity purchase with a lease
- In coordination with the OEI, DLA expects to issue a NOIA in early FY15
- The Army will be the sole off-taker of power
- Lease signing is anticipated in third or fourth quarter of FY15 with commercial operations projected by 2016

Fort Stewart, GA — 8-14 MW solar project

- Acquisition model is an Enhanced Use Lease (EUL)
- Project is a component of Georgia Power Advanced Solar Initiative (GPASI)
- The project is a lease to a third-party developer to construct, own and operate a solar system to sell electricity to Georgia Power
- Two sites totaling 111 acres have been identified for the project
- Georgia Power is scheduled to select final developers for this project by November 2014

Georgia 3x30 — Forts Stewart (30 MW), Gordon (30 MW) and Benning (30 MW)

- Acquisition model is a utility services agreement through an existing GSA Areawide contract with Georgia Power
- NEPA process is underway with public comment phase to commence shortly
- The project includes a 35-year easement and no changes in the Army utility rates or costs resulting from this initiative
- The on-site generation represents 18 percent of the electricity consumed in Georgia by the three installations
- A signing ceremony is targeted for late CY14

Redstone Arsenal, AL — Up to 18000 MW hours/ year solar project

- Acquisition model is an electricity purchase with a lease

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OEI Project Updates from page 3

- 1st Multiple Award Task Order Contract (MATOC) task order issued by USACE-Huntsville in July 2014
- 188 acres have been identified for potential development
- An Industry Day occurred in August 2014, a NOIA is projected to occur in early CY15, and commercial operations are expected in CY16

Mr. Richard Kidd Deputy Assistant Secretary of the Army, Energy and Sustainability, addresses energy companies at the August 20, 2014 Redstone Arsenal solar project Industry Day.

Photo by Kari Hawkins Redstone Arsenal

Schofield Barracks, Hawaii — 50 MW bio-fuel capable power plant project

- Acquisition model is a 30-year lease to Hawaiian Electric Company (HECO); HECO submitted an application to the Public Utility with a decision expected prior to November 2015
- Provides "black start" capability to support Army, FEMA, and local authorities during natural disasters; provides grid stability and integrated solar / wind distribution
- The project provides enhanced energy security to three Army installations (Schofield Barracks, Wheeler Army Airfield, and Field Station Kunia)
- A lease is expected to be signed in late CY15 and commercial operations anticipated in CY17

Fort Hood, TX — Up to 40 MW onsite solar and offsite wind project

- Acquisition model is an electricity purchase with a lease
- Request for Proposals (RFP) is planned to be released in the next several months
- 266 acres identified for potential solar development
- Project provides a platform for future micro-grid technology
- NOIA is expected in early CY15
- Commercial operations expected in CY16

Redstone Arsenal, AL — 25 MW Combined Heat and Power (CHP) project

- Acquisition model is a 30-year energy purchase with a lease
- RFP is planned to be released in the next few months
- Redstone Arsenal will consume all steam and electricity generated from this project
- NOIA expected in summer of 2015

Tooele Army Depot, UT — wind and/or solar project

- Acquisition model is an EUL
- RFP is planned to be released in the next few months
- The Army is not the electricity off-taker for this project

Project Assessment and Validation

Fort Bliss, TX — 20 MW solar project

- Acquisition model is a utility services agreement through an existing GSA Areawide contract with El Paso Electric
- 218 acres identified for potential development

Fort Bragg, NC — ~ 10 MW solar project

- Acquisition model is a utility services agreement through an existing GSA Areawide contract with Duke energy
- ~ 80 acres available for potential development on a capped landfill

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Massachusetts ARNG — ~ 10 MW solar and wind project

- Acquisition model is an electricity purchase
- Sites include Joint Base Cape Cod (JBCC) and Rehoboth ARNG
- Army is the primary off-taker of power

Aberdeen Proving Ground, MD — ~ 14MW solar project

- Acquisition model is an electricity purchase
- Request for Information (RFI) issued in September 2014 to assess industry interest
- Aberdeen Proving Grounds is the off-taker of power

Fort Meade, MD — 14 MW solar projects via MATOC

- Acquisition model is an electricity purchase
- Proposed rooftop & landfill solar projects
- RFI issued in August 2014 to assess industry interest
- Fort Meade is the off-taker of power

Fort Pickett, VA — ~ 50 MW solar project

- Acquisition model is an EUL
- Virginia Dominion power will be the off-taker of power
- 360 acres identified for potential development

Fort Rucker, AL — ~ 20MW solar project

- Potential GSA contract with Alabama Power

Anniston Army Depot, AL — ~ 20MW solar project

- Potential GSA contract with Alabama Power

Los Alamitos Joint Forces Training Base, CA — ~ 20 MW solar with onsite storage

- Acquisition model is an EUL
- Approximately 200 acres available on the installation
- Working with Southern California Edison for off-takers of power

Fort Greely, AK — Biomass CHP and wind projects

- Acquisition model is an electricity purchase with a lease

Yakima, WA — 45 MW wind project

- Acquisition model is an EUL
- Wind assessment study underway

Camp Parks, CA — Solar energy with storage

Camp Roberts, CA — Solar with energy storage

Fort Huachuca, Arizona ~18 MW solar project September 2014.

U.S.ARMY

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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.