### Session 6: Energy Resilience to Achieve Mission Assurance



# Army Office of Energy Initiatives Project Contracting Methods

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- OEI Projects
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### **OEI** Overview





#### **SecArmy Directive**

"The OEI will serve as the Army's central management office for the development, implementation and oversight of all privately financed, large-scale renewable and alternative energy projects"

#### **Guiding Principles**

- Priced at or below grid parity
- On/near an installation
- Brings some form of energy security enhancement

Challenge Develop projects that attract private financing IAW market conditions and balance all three drivers

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Typical

**Business** 

Models

**RESA/Lease** 

GSA/

Easement

Stand-alone

Lease

#### OEI leverages existing statutory authorities to meet renewable energy principles

#### 10 USC 2922a\* - RESA

- Contracts up to 30 years for provision of production facilities and purchase of energy
- Army consumption from a renewable energy generation facility (REGF) located on- or off-site
- Project avoids Army utility costs and increased energy resiliency through advanced controls

#### FAR 41 - GSA Areawide

- Utility services for up to 10 years
- Army provides the servicing utility an easement to host rate-based energy generation on-site
- On-site generation alleviates congestion on utility line near the installation

#### 10 USC 2668\* - Easement

- Granting rights-of-way access to military lands to promote public interest
- Army issues an easement to a utility for on-site energy generation
- Provides a streamlined outgrant for utilities to construct generation for the community

#### 10 USC 2667\* - Lease

- Lease non-excess property to promote nation defense or public interest
- Army issues a lease for on-site energy generation to be consumed off-site
- On-site generation provides a secure location to reestablish power for the installation and community after an outage

\*Department of Defense-Specific Authorities

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### **Typical Business Model Considerations**



Areas of Consideration	RESA/Lease	GSA/ Easement	Stand-alone Lease
Site	Is private land off the installation or non-excess land on the installation available?	Is non-excess land on the installation available?	Is non-excess land on the installation available?
Energy Price	Are installation energy prices high?	Are utility energy prices low?	Are regional wholesale energy prices high?
Regulatory	Is the use of a power purchase agreement legal under local regulation?	Can power be purchased using FAR Part 41 (up to 10 years) with a regulated utility?	Is the sale of power off the installation authorized in the location?
Transmission	Is economical local distribution available?	Is economical local distribution available?	Is economical transmission capacity to off-takers available?
Off-take	Is the installation demand sufficient to use the energy produced by the facility?	Is the installation demand sufficient to use the energy produced by the facility?	Are off-takers other than the installation available to buy power from the facility?

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# **Typical Business Model Performance**



Typical	Typical Performance				
Models	Energy Security & Sustainability	Economic Benefits	Renewable Goals	Procurement Aspects	
RESA/Lease	Better/Best	Better/Best	Better	<b>Timeline:</b> More time to Complete <b>Flexibility:</b> Competitive RFP enhances flexibility <b>Complexity:</b> Increased given energy price and lease consideration negotiations	
GSA/ Easement	Average	Average	Better	<b>Timeline:</b> Shortest time to Complete <b>Flexibility</b> : Limited given the existing GSA <b>Complexity</b> : Low with no energy price negotiation and standard land use payment structure	
Stand-alone Lease	Better/Best	Average/ Better	Better	<b>Timeline:</b> More time to Complete <b>Flexibility:</b> Competitive RFP enhances flexibility <b>Complexity:</b> Increased given negotiation of energy security value as consideration	

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• 50 MW Biofuel

- Stand-alone Lease
- Expected operation: Dec 2018

Case Study: Schofield Barracks, HI

- Black start capable
- 5 day fuel supply on post, 30 day fuel supply on island
- During normal operations the Army purchases power from the Oahu grid
- During outages/threats the Army has "first call"
- Meets peak requirements for 3 installations
- Shortens time to restore power to community









# Case Study: Fort Drum, NY

A CFENERGY WITH THE

- 60 MW Biomass
- RESA/Lease
- Operational Sep 2014
- Black start capable
- 32.5 day fuel supply on post
- Supplies 100% of garrison's electricity
- Can operate independently of local utility





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- No "one size fits all" procurement model
- 3 typical business models:
  - RESA/Lease
  - GSA/Easement
  - Stand-alone Lease
- No-cost resiliency enhancements are not always available
- Always looking for additional models

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### **OEI Contacts**





### **ARMY GUIDE:**

Developing Renewable Energy Projects by Leveraging the Private Sector

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

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# Backup

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### **Quiz Questions**



1. T/F. There is one acquisition strategy that is always preferred for privatesector financed renewable energy deals. (Answer: False)

2. T/F. The three most typical business models utilized by OEI are: RESA/Lease, GSA/Easement, Stand-alone Lease. (Answer: True)

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