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A River of Energy Solutions

Enhancing DoD-Utility Relationships

Mr. Ross Roley, US Pacific Command



Enhancing DoD-Utility Relationships

- Communications
 - Attendance at common meetings
 - Periodic DoD-utility meetings
 - Socializing
- Establish trust, honesty and openness
 - Returning phone calls, e-mails, etc.
- Collaborate on projects
 - Renewables, biofuels, smart grid, UESC



2.5 MW Ford Island Runway PV





Joint PV Purchase

35 MW in Solar PV Power Purchase Agreements for Army, Navy, AF and USMC installations across Hawaii



Roof-Mounted

Ground-Mounted

PV Carports



Energy Surety Initiative

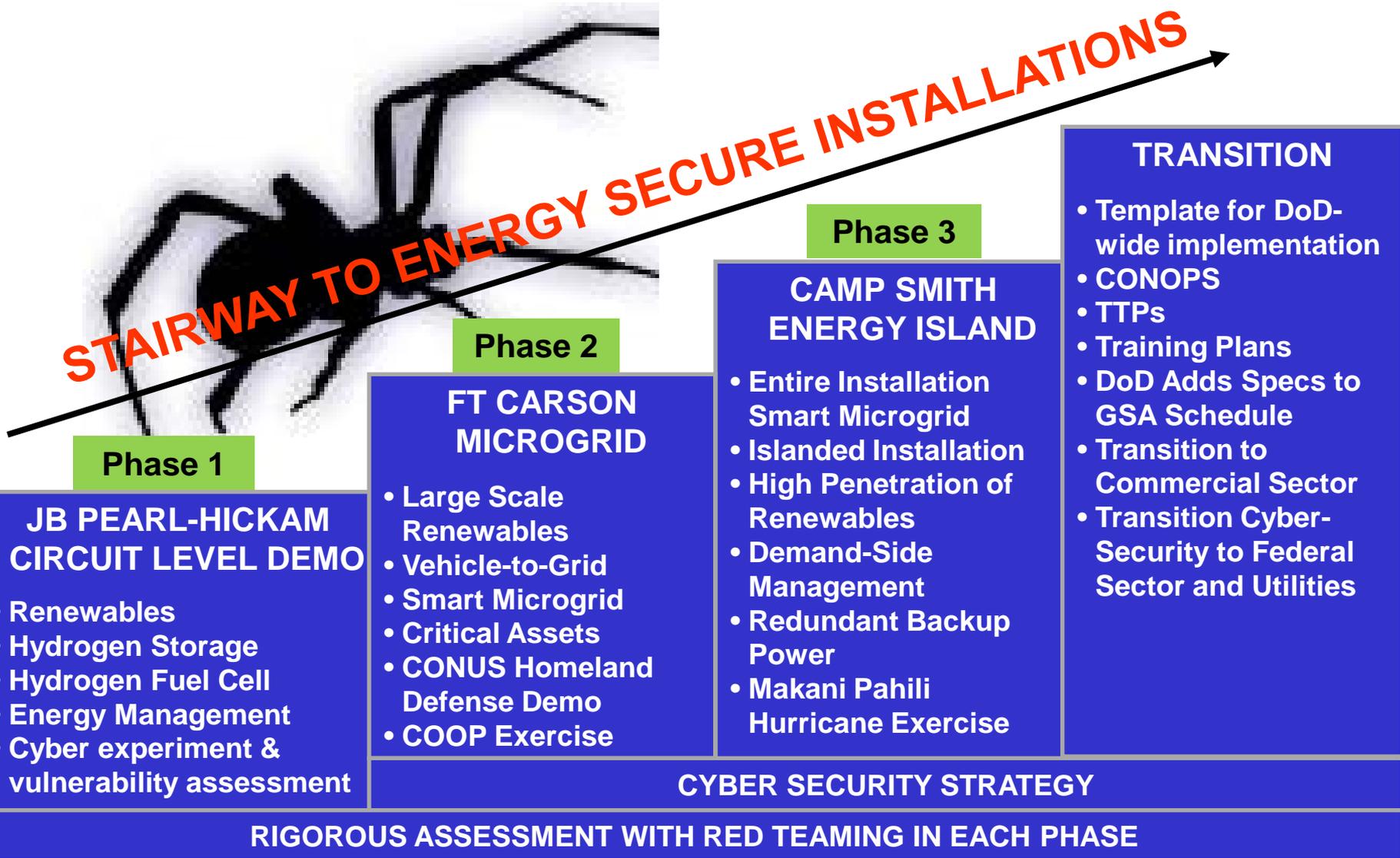
- 30 MW Biofuel Power Plant



- **Firm Power Generation for Total Load at MCBH K-Bay + Excess Off-Base**
- **Developer will own, operate, and maintain the Power Plant under Enhanced Use Lease**
- **Combustion Turbine will burn biodiesel (preferred), diesel, or JP8 fuel**
- **Phase I Study awaits HQMC approval and funding**



Smart Power Infrastructure Demonstration for Energy Reliability and Security (SPIDERS) JCTD





SPIDERS Participants

- **USPACOM, USNORTHCOM
DOE, and DHS**
- **DOE - 5 Nat'l Labs**
- **Military Services**
- **Army Construction Engineering
Research Lab (CERL)**
- **Naval Facilities Engineering Cmd**
- **Local Utility Companies**
- **States of Hawaii & Colorado**



US Army Corps of Engineers
Engineer Research and Development Center
Construction Engineering Research Laboratory





Green Initiative for Fuels Transition Pacific (GIFTPAC)

- 1) Long-term contract by DLA-Energy for multi-year stable-price supply of domestically produced non-fossil fuel to displace at least 25% of DoD petroleum-based fuel in Hawaii; corresponding purchase contracts of renewable/green electricity derived from co-products of fuel process.
- 2) Enterprise model inclusive of the local energy market that incorporates the agricultural, energy, environmental, government, industrial, and commercial sustainability objectives.
- 3) End state with sustainable ongoing competition among multiple commercial entities at many levels.

Regional demonstration of a national security concept



Green Initiative for Fuels Transition Pacific (GIFTPAC)

Working Group:

- Mission Manager: PACOM and Navy DASN Energy
- Acquisition Manager: DLA-Energy
- Federal Representation: DoD: DARPA, DPA Title III, OSD OEPP, ONR, AFCE, NAVAIR, TARDEC, NAVFAC HAWAII, IMCOM PAC, PACOM J4/JPO
USDA: RDP, ARS, NRCS
USDOE: OBP , EERE
EPA Office of Transportation AQ
Hawaii Energy Office, Dept of Ag, Dept of Natural Resources
Hawaiian Electric Company, ATA
- State Sponsors:
- Industry Cooperation:



Listening to Supplier Industry/Stakeholders:

- Land owners
- Farmers
- Seed/crop developers
- Engineers
- Refiners/Biorefiners
- Ranchers
- Cellulosic converters
- Equipment suppliers
- Capital sources
- Ag processors
- Utilities
- Algae developers