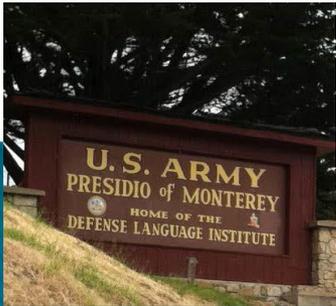


Federal Utility Partnership Working Group  
Spring 2015: April 21–23  
Nashville, TN

# U.S. Army & PG&E

Presidio of Monterey  
Energy Resiliency

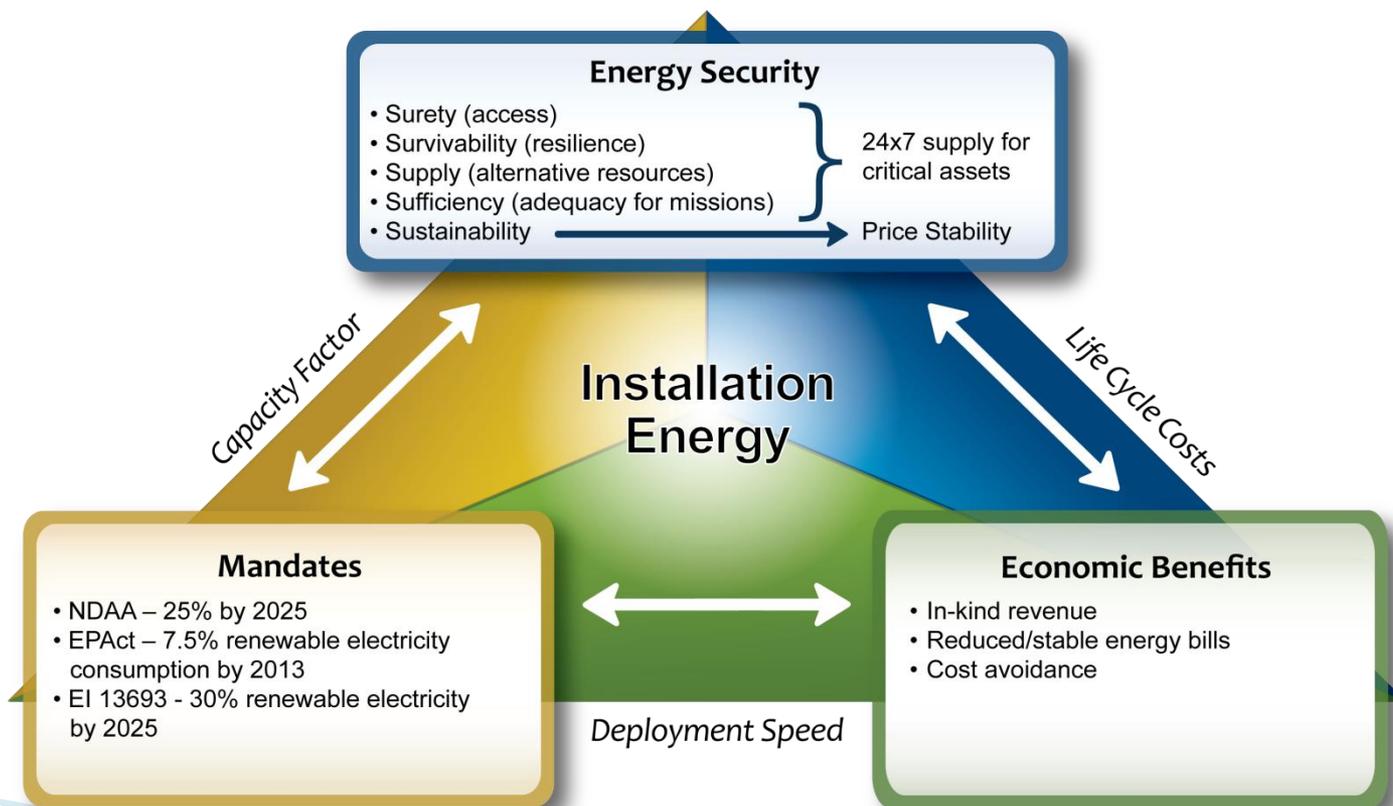


# Agenda

- ▶ Objective
- ▶ Energy Resiliency
- ▶ UESC Task Order
- ▶ Deliverables
- ▶ Outcome / Conclusion

# Objective

- ▶ Define Energy Resiliency & Strategy for the U.S. Army at POM while providing a clear understanding of the Utility role.



# Energy Resiliency – PG&E

- ▶ **U.S. Army POM Facilities Assessment:**
  - Analysis of existing electrical system topology
  - High-Level design for Energy Security
    - Concept for “partial Islanding”
  - Define Critical Load
  - Building Specific Islanding Capability
  - Utility Grid Vulnerabilities
  - Develop plan to change distribution voltage

# Energy Resiliency – Army

- ▶ Addressing **energy security** through a comprehensive program to ensure that we have **assured access to reliable supplies** of energy and the ability to protect and **deliver sufficient energy to meet mission-essential requirements**.
  - **Resilience:**
    - the ability to anticipate, prepare for, and adapt to changing conditions and
    - withstand, respond to, and recover rapidly from disruptions (E.O. 13693)
  - **Energy Security:**
    - assured access to reliable supplies of energy and
    - the ability to protect and deliver sufficient energy to meet mission essential requirements
  - **Soldier:**
    - Lightening soldier power loads
    - Agility and self-reliance through renewable energy
  - **Vehicles:**
  - **Basing:**
    - Improving installation fuel, water and energy efficiency
    - Diversity of supply through renewable energy enhancing energy security
    - Hybrid energy solutions
    - Integration w/ micro-grids
- 

# UESC Task Order...

## ▶ U.S. Army – PG&E – Task Order #4

- Have a multi-million dollar BOA in place with U.S. Army 13'
- We have been awarded 6 Task Orders to date
  - UESC Bundled effort at the DMDC Facility
  - Two RCx Trainings – Specific to Army staff
  - Energy Resiliency Assessment
  - 3 Building HVAC based UESC at Presidio of Monterey (POM)
  - Upcoming UESC for Army POM – Base-wide energy project

# UESC Deliverable

- ▶ **Energy Resiliency Plan that identified:**
  - Options – Critical Redundant Circuits
  - Islanding Concept
  - Disconnect Requirements for DG on Distribution Sys.
  - Feasibility of “Islanded Microgrid” for critical load
  - Vulnerabilities of for Current Electric system (both sides of meter)
  - Plan to phase-out existing distribution system

# Contact Information

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