

FEDERAL UTILITY PARTNERSHIP WORKING GROUP SEMINAR

November 2-3, 2016
Bellevue, WA

Demonstration Projects and UESCs Environmental Security Technology Certification Program (ESTCP)

Hosted by:



Outline

- Overview of ESTCP
- Integrating Demonstration Projects w/UESCs

About ESTCP

- Established in 1995 to:
 - Improve DoD's environmental performance
 - Reduce costs
 - Enhance and sustain mission capabilities
- Demonstration & validation focus
- Promote Implementation
- Energy & Water is one of five ESTCP Program Areas
- ~ \$20M annual budget for EW



Energy & Water

Environmental
Restoration

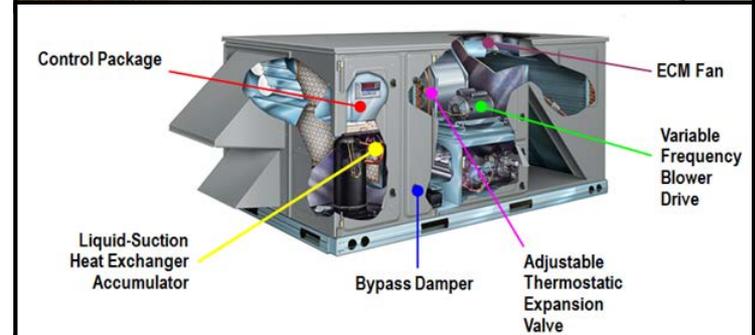
Resource
Conservation &
Climate Change

Weapons
Systems &
Platforms

Munitions
Response
PSE SOUND ENERGY

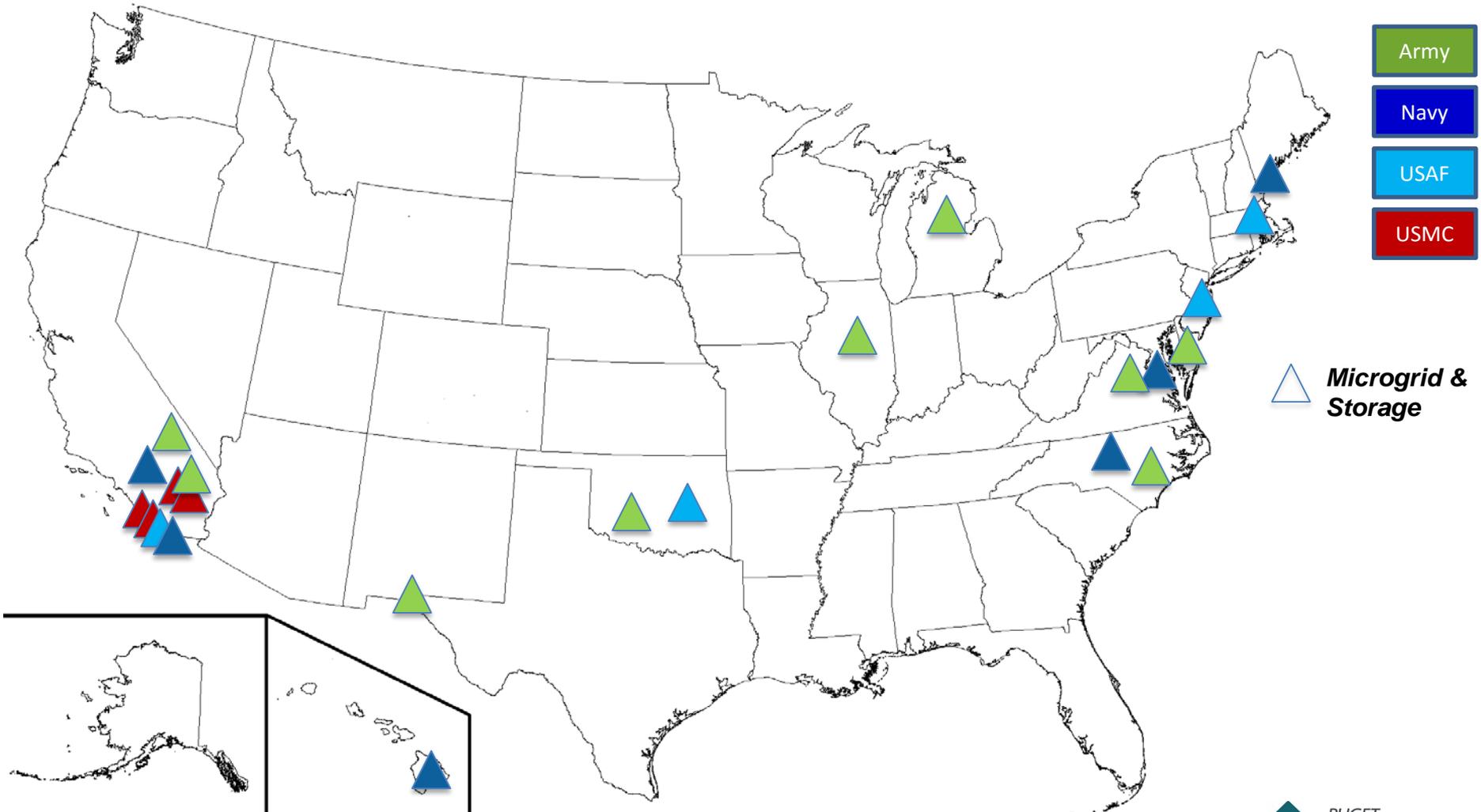
Energy and Water

- Smart and secure installation energy management
 - Microgrids
 - Energy storage
 - Ancillary service markets
- Efficient integrated buildings and components
 - Design, retrofit, operate
 - Enterprise optimized investment
 - Advanced components
 - Intelligent building management
 - Non-invasive energy audits
- Distributed generation
 - Cost effective
 - On-site
 - Emphasis on renewables



Smart and Secure Installation Energy Management Projects (Microgrid-Energy Storage-Demand Response/Ancillary Services)

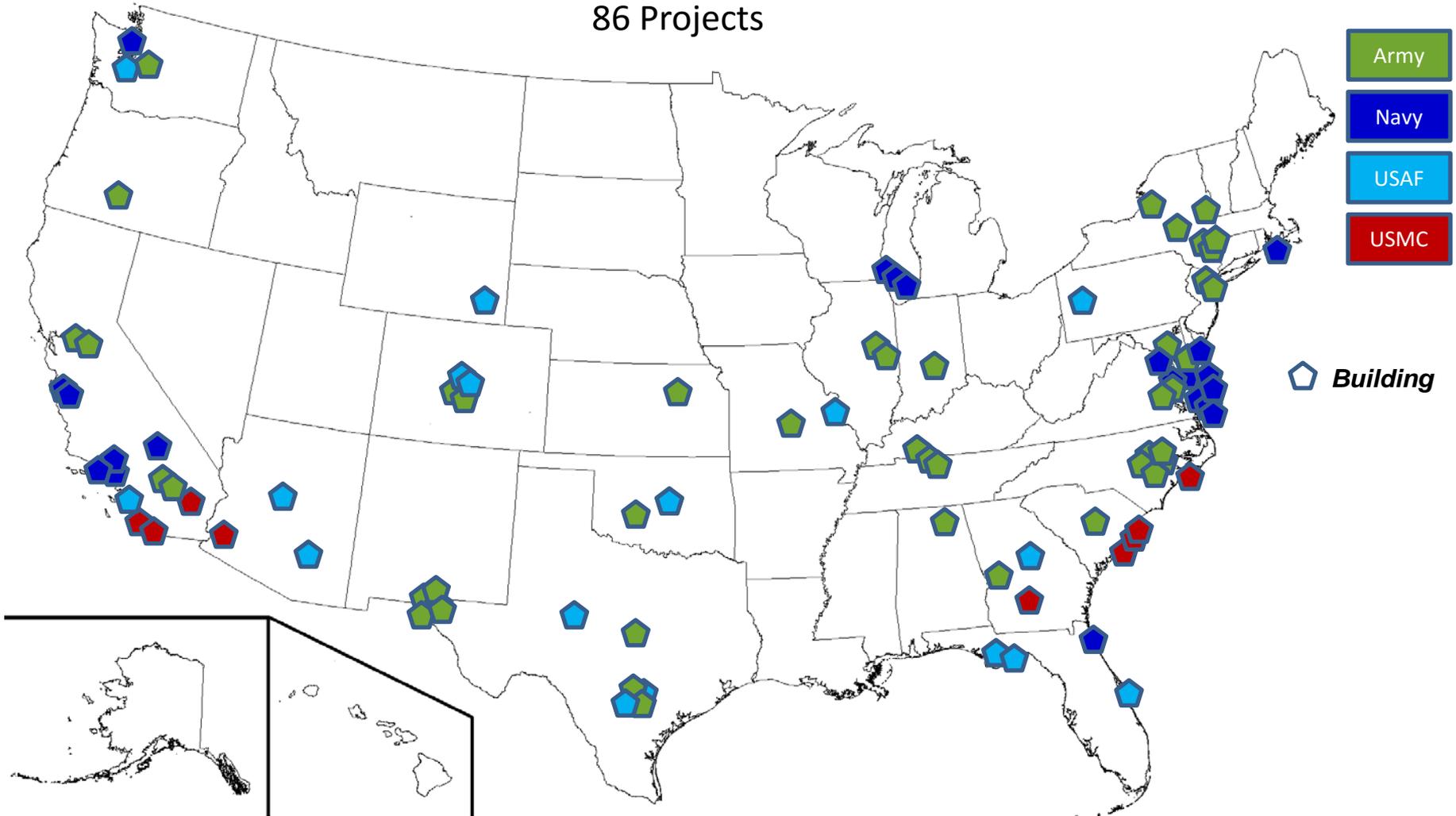
29 Projects



Efficient Integrated Buildings Projects

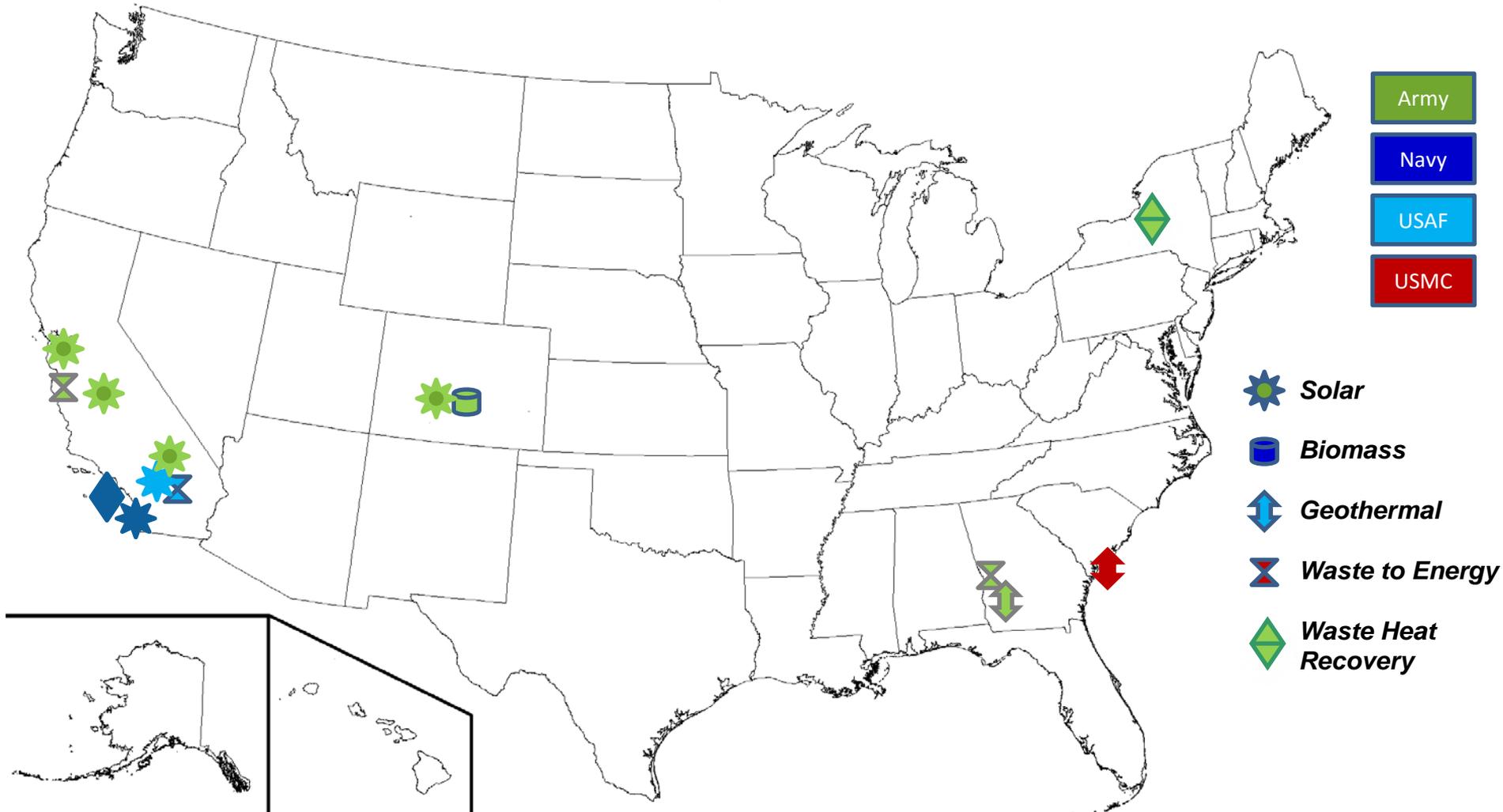
(Advanced Components, Controls, Design, Optimized Investment, Water)

86 Projects

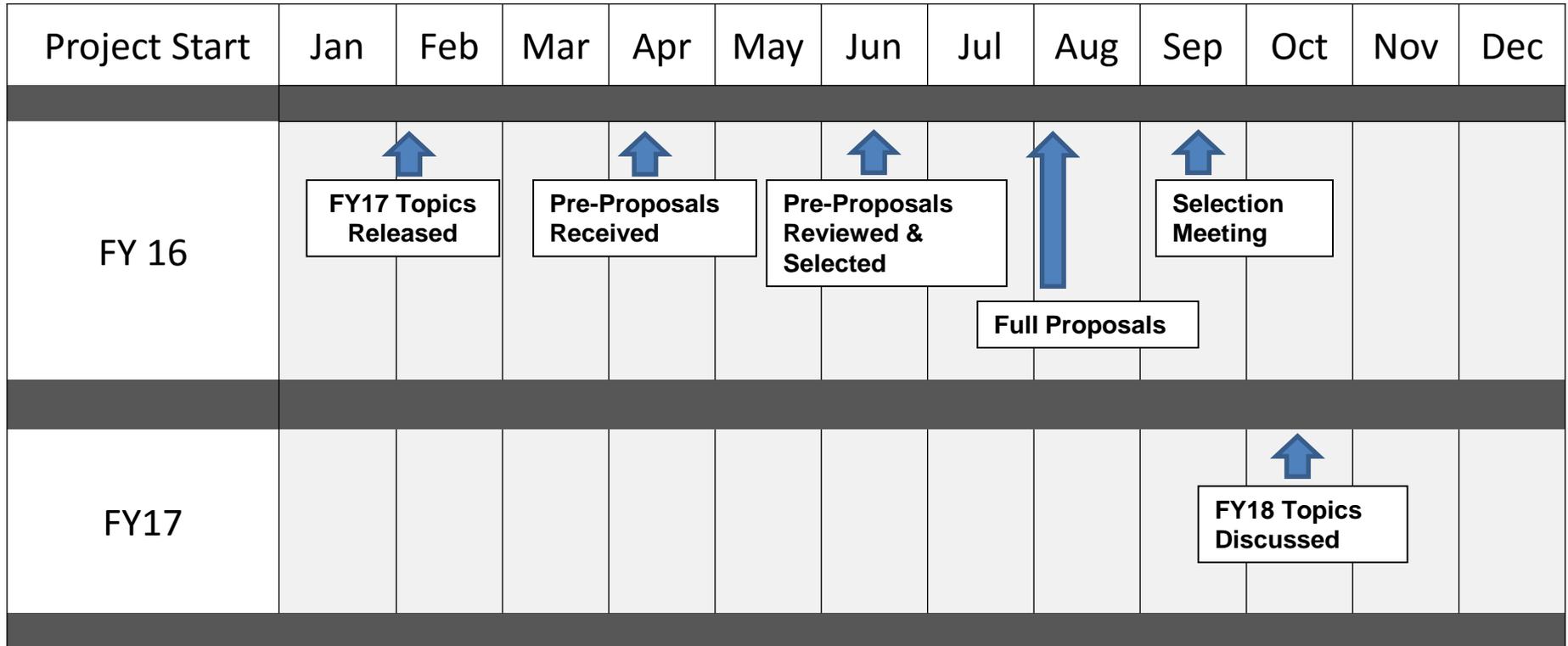


Distributed Generation Projects

13 Projects



Annual Solicitation Cycle



Demonstration Process

Demonstration Site



Formal Demonstration Plan



Approval

Demonstration

- Baseline, Installation, Data acquisition



Reporting

- Final Report, Cost & Performance Report

Disposition of Equipment

- Remove and replace to pre-demonstration condition
- Abandon in place
- ★ Transfer property to installation for ongoing operation

Benefits of Integration with UESCs

- Continued operations of Installed technology.
- Utilities/ESCOs gain experience with new technology.
- Efficient project execution - Increase performance and cost data collection.
- Direct example for future UESC applications.

What's Next?

- ESTCP Program Office seeking feedback
 - Utilities, ESCOs, Energy/Facility Managers
 - Solicitation mechanics/timing, provision of O&M, solicitation topic recommendations etc.
- Develop solicitation documents
 - Guidance documents
 - Technology topic(s)
- ESTCP Director Approval

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