

FEDERAL UTILITY PARTNERSHIP WORKING GROUP SEMINAR

April 12-13, 2017
Savannah, Georgia

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

Energy & Water

Environmental
Restoration

Resource
Conservation &
Climate Change

Weapons
Systems &
Platforms

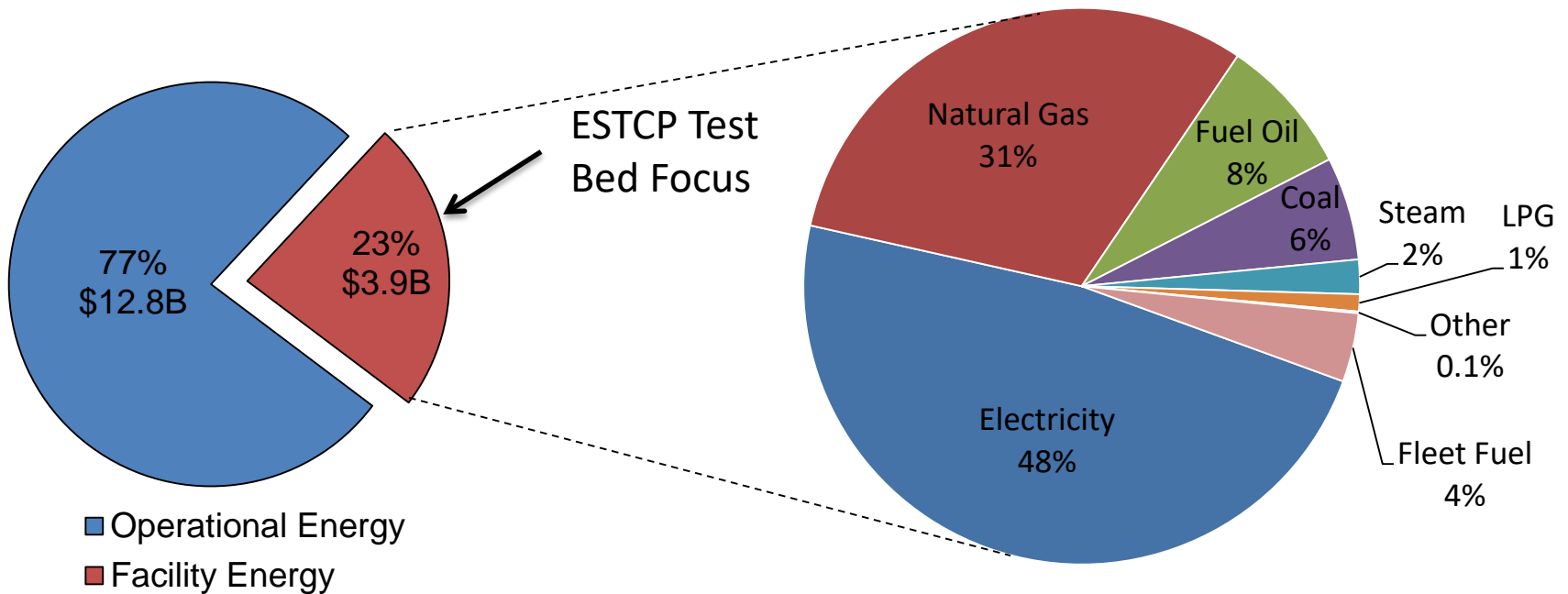
Munitions
Response



DoD Energy Use – ESTCP Focus

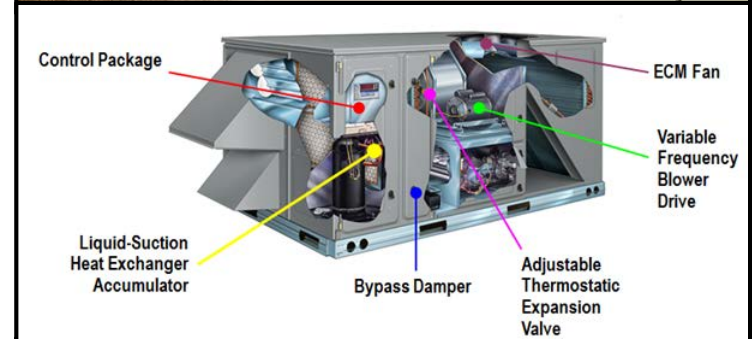
DoD Facility & Operational Energy Cost: \$16.7B (FY15)

Military Installation Energy Consumption



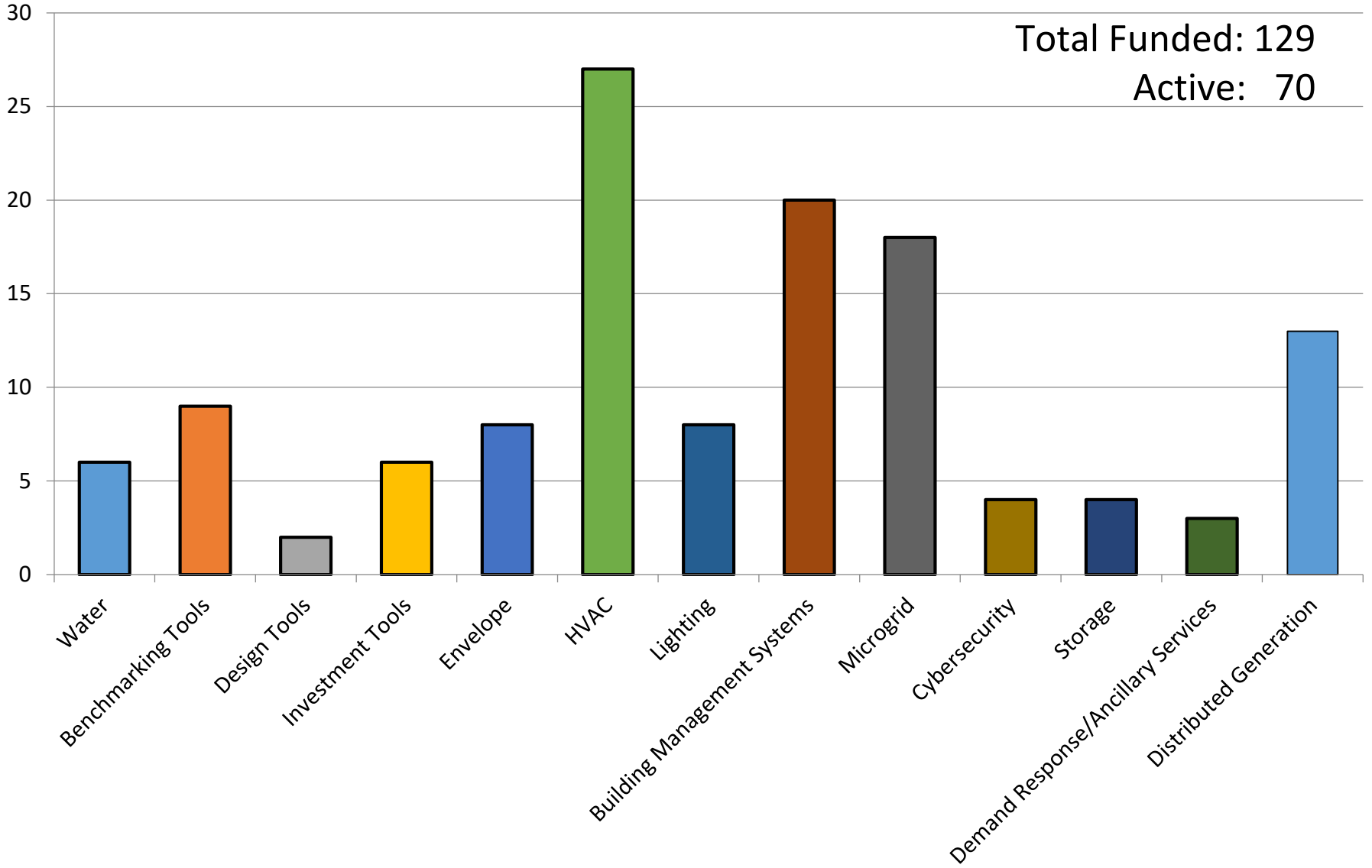
Energy and Water

- 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

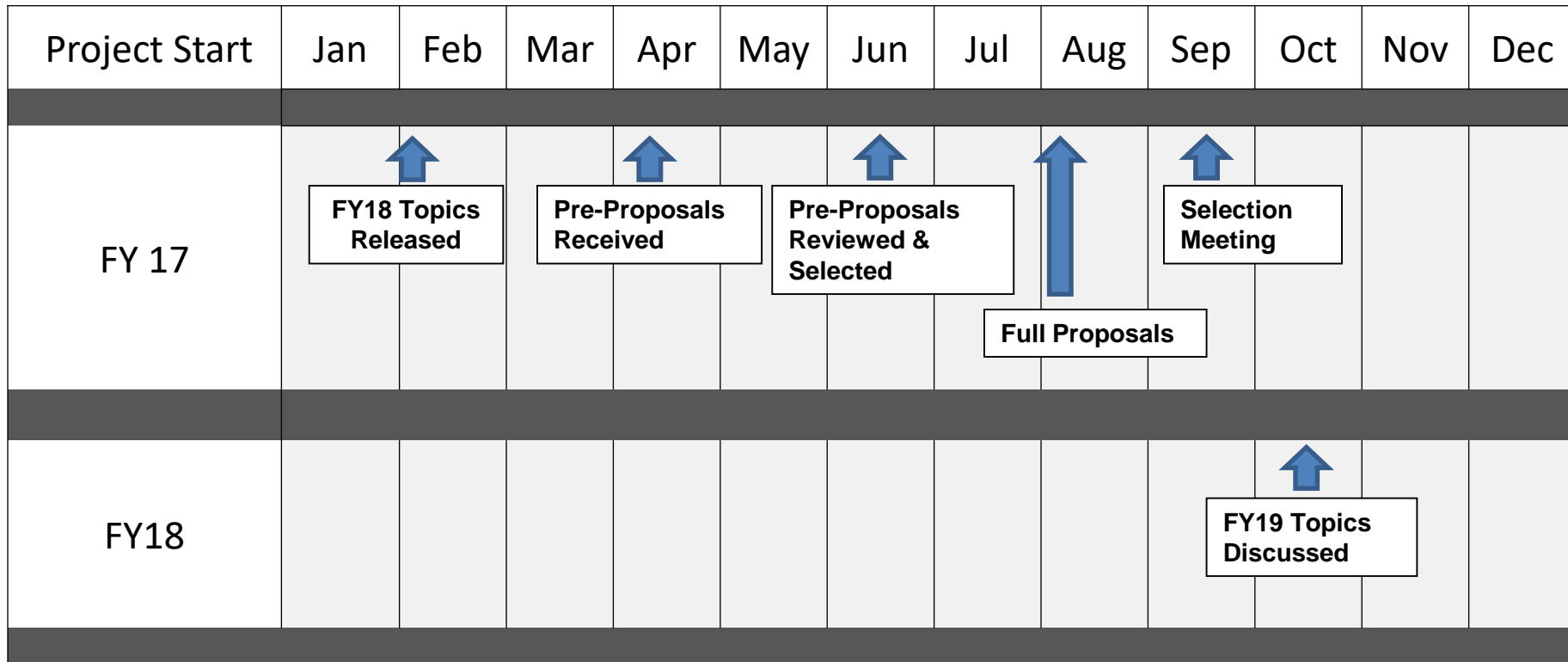


Active and Completed EW Projects - Project Count

Total Funded: 129
Active: 70



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.
- Efficient project execution.
- Utilities/ESCOs gain experience with new technology.
- Accelerated deployment of new technology.

Energy Efficiency Technology Demonstrations Integrated with Utility Energy Service Contracts – *BAA Only*

- Demonstrate innovative technologies and approaches to improve the energy and water efficiency of buildings on military installations.
- Demonstrations must be coordinated and integrated with utility energy services contracts (UESCs) in development at military installations to leverage common efforts.
- Demonstrations should be of technologies that would not otherwise be included in the UESC due to a lack of cost and performance data or related concerns.
- Project leads must be utilities that serve the military installation where the UESC and demonstration project will be performed.
- Demonstrations with the following characteristics are preferable:
 - High likelihood of adoption in future UESC projects within one year of conclusion of demonstration
 - High calculable energy and cost savings
 - Potential for high savings-to-investment ratio and short simple payback
 - Minimal additional technology development required for deployment after the demonstration
 - Cost sharing

FY18 Solicitation Summary

- Lots of interest.
- Good ideas for project integration.
- Continue to learn through evaluation/selection process.
- Intend to include UESC topic in future solicitations.

Contact Info

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